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Environmental Protection Technology Series

Water Pollution Potential of Manufactured Products

Catalog Section II - Product Listing



Office of Research and Monitoring
U.S. Environmental Protection Agency
Washington, D.C. 20460

RESEARCH REPORTING SERIES

Research reports of the Office of Research and Monitoring, Environmental Protection Agency, have been grouped into five series. These five broad categories were established to facilitate further development and application of environmental technology. Elimination of traditional grouping was consciously planned to foster technology transfer and a maximum interface in related fields. The five series are:

1. Environmental Health Effects Research
2. Environmental Protection Technology
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4. Environmental Monitoring
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This report has been assigned to the ENVIRONMENTAL PROTECTION TECHNOLOGY series. This series describes research performed to develop and demonstrate instrumentation, equipment and methodology to repair or prevent environmental degradation from point and non-point sources of pollution. This work provides the new or improved technology required for the control and treatment of pollution sources to meet environmental quality standards.

WATER POLLUTION POTENTIAL
OF
MANUFACTURED PRODUCTS
CATALOG SECTION II - PRODUCT LISTING

by

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1925	GUIDED MISSILES AND SPACE VEHICLES, COMPLETELY ASSEMBLED											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Moon Rover			Materials Engineering									
Stainless Steel Parts												CCD
Instrument Housings			Plastics Guide									
Acetal Copolymers												
Interior Components			Plastics Guide									
Acrylonitrile Butadiene Styrene				0								CCD
Casings			Plastics Guide									
Polyester Resins												CCD

x - may be an effect
 o - no effect
 blank - no information

2042	PREPARED FEEDS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dry Matter			75-93	K-0									
Ash			1-19										
Crude Protein			3-47										
Ether Extract			1-15										
Fiber			0-40				X						CCD
Calcium			0.05-0.9									X	
Phosphorous			0.06-1.8										
Moisture			7-25										

x - may be an effect
 o - no effect
 blank - no information

2051	BREAD, CAKE, AND RELATED PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Yeast Leavening		K-0									
Calcium Sulfate	30					X	0			X	CCD
Ammonium Chloride	9.4		X		0	X	0				CCD, Merck8
Potassium Bromate	0.3		X		0	X					Merck 8
Sodium Chloride	35		X		0	X					Merck 8
Starch	25.3			X	X	X					CCD
or											Heukelekian
Clear Flour							X				Hackh's
may contain:											
Calcium Propionate					0	X				X	CCD
Sodium Propionate				X	0	0					CCD Heukelekian
Ascorbic Acid					0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2051	BREAD, CAKE, AND RELATED PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Yeast Leavening (Cont'd.)											
may contain:											
Sodium Diacetate					0	X	X				CCD
Vinegar											CCD
Monocalcium Phosphate					0	0		X		X	CCD
Lactic Acid				X		X	0				CCD Heukelekian
Chemical Leavening											
Cream of Tartar					0	X					CCD
Sodium Bicarbonate			X		0	X					Merck 8
Monocalcium Phosphate						0		X		X	CCD
Sodium Aluminum Sulfate					0	0					CCD
Sodium Acid Phosphate					0	X	0	X			CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2051	BREAD, CAKE, AND RELATED PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Baking Acids											
may contain:											
Monocalcium Phosphate Monobasic					0	0		X		X	CCD
Monocalcium Phosphate Anhydrous, Coated								X		X	
Sodium Acid Pyrophosphate								X			
Sodium Aluminum Phosphate					X	X	0	0			CCD
Dicalcium Phosphate Dihydrate						X	0	X		X	CCD
Sodium Aluminum Sulfate					0	0					CCD
Glucono-ortho-lactone			X		0						Merck 8
Potassium Hydrogen Tartrate					0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2072	CHOCOLATE AND COCOA PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cocoa Powders		K-0									
Potassium Carbonate	3 total				0	X					CCD
Potassium Bicarbonate					0	0	0				CCD
Potassium Hydroxide			X		0	X					CCD
Ammonium Carbonate			X		0	0	X				CCD Merck 8
Ammonium Bicarbonate					0	X					CCD
Ammonium Hydroxide			X			0	X				CCD
Sodium Carbonate											
Sodium Bicarbonate			X		0	X					Merck 8
Sodium Hydroxide			X		0						Merck 8
Magnesium Carbonate					0	X				X	Merck 8
Magnesium Bicarbonate										X	
Magnesium Hydroxide			X		X	X				X	Merck 8

x - may be an effect
 o - no effect
 blank - no information

2072	CHOCOLATE AND COCOA PRODUCTS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Cocoa Powders (Cont'd.)													
Cocoa Bean		97					X	X				CCD	
Cocoa Butter													
Extraction													
Hexane				X	X	0	X					CCD Merck 8	
Trichloroethylene				X	X		X					Merck 8	
Dichloromethane				X	0	0						Merck 8	
Emulsifier (for cocoa butter substitutes)												CCD	
Polyoxyethylene Sorbitan Monostearate						0	X	X				CCD	

x - may be an effect
 o - no effect
 blank - no information

2073	CHEWING GUM		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Natural		K-0									
Gum Base, Synthetic	20										
25 Possible Latex Products Used											
Corn Syrup	19			X	0	X					CCD Heukelekian
Sugar	60			X	0	X	0				CCD Heukelekian
Flavoring	1										
Coating											
Chicle											Merck 8
Other Resilient Confectionary Products											

x - may be an effect
 o - no effect
 blank - no information

2073	CHEWING GUM (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Synthetic Preparations													
may contain:													
Vinyl Resins													
Microcrystalline Waxes						X	X					CCD	
Latex Products												CCD	

x - may be an effect
 o - no effect
 blank - no information

2086	SOFT DRINKS AND CARBONATED WATERS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Flavors			K-0									
Alcoholic Extracts							0	X				CCD
Emulsions (Natural Gums and Oils)												CCD
Alcoholic Solutions							0	X				CCD
Fruit Juices												
Caffeine						0	X	0				CCD
Kola Nut Extract (Cola)												CCD
Acidulants												
Citric Acid					X	0	0	0				CCD Heukelekian
Phosphoric Acid				X		0	0	0				CCD
Tartaric Acid					X	0	0	0				CCD Heukelekian
Fumaric Acid					X		0	0				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2086	SOFT DRINKS AND CARBONATED WATERS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.							
Colors												
Caramel						0	X	X				CCD
FD & C Red No. 2 (Amaranth)						0	X					CCD
FD & C Red No. 4 (Ponceau Sx)												Merck 8
FD & C Yellow No. 5 (Tartrazine)				} see coloring								
FD & C Yellow No. 6 (Sunset Yellow FCF)												
FD & C Blue No. 1 (Brilliant Blue FCF)												
FD & C Green No. 3 (Fast Green FCF)												
Preservative												
Sodium Benzoate						X	X	0	X	0		Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2086	SOFT DRINKS AND CARBONATED WATERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sweeteners											
Granulated Sucrose (see sugar)				X	0	X	0				CCD Heukelekian
Liquid Sucrose (see sugar)				X	0	X	0				CCD Heukelekian
Liquid Invert Sugar (see sugar)				X	0	X	0				CCD Heukelekian
Saccharin					0						Merck 8
Water, Treated											
Chlorinated											
Lime											
Ferrous Sulfate					0	X	0			X	CCD
Potassium Aluminum Sulfate					0	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2086	SOFT DRINKS AND CARBONATED WATERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Miscellaneous											
Sodium Bicarbonate			X		0	X					Merck 8
Sodium Sulfate					0						Merck 8
Vanillin					0	X	X				CCD
Ethyl Vanillin						X	X				CCD
Oil of Wintergreen			X			X	X		X		CCD Merck 8
Oil of Orange		} see flavoring									
Oil of Cognac											
Oil of Lemon											
Oil of Lime											
Quinine Hydrochloride											
Methyl Anthranilate						X	X				CCD

see
flavoring

x - may be an effect
o - no effect
blank - no information

2086	SOFT DRINKS AND CARBONATED WATERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Miscellaneous (Cont'd.) alpha-heptyl-butyrolactone (Aldehyde C₁₄) (alpha-undecalactone) see flavoring Aldehyde C₁₆ { Ethyl-beta-methyl-beta-phenyl-glycidate and Ethyl-alpha, beta-epoxy-beta-methyl-hydrocinnamate (see flavoring)											

x - may be an effect
 o - no effect
 blank - no information

2087	FLAVORING EXTRACTS AND SYRUPS, N.E.C.		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Easter Egg Dyes		Gleason									
U.S. Certified Color	0.5-5										
Edible Gums	Trace										
Edible Waxes	Trace										
Citric Acid	Trace			X	0	X	0				CCD Heukelekian
Phosphoric Acid	Trace		X		0	0	0	X			CCD
Resins (Natural)	Trace				X	X					CCD
Salt (Sodium Chloride)	Trace		X		0	0					Merck 8
Essential Oils (Citrus)	Trace		X		X	X	X				CCD, K-0
Lactose	Trace			X	0	X	0				CCD Heukelekian
Dextrose (see Glucose)	Trace			X	0	X					CCD Heukelekian
	to 100										

x - may be an effect
 o - no effect
 blank - no information

2087	FLAVORING EXTRACTS AND SYRUPS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Vanilla Extract		Gleason									
Ethyl Vanillin	0.2					X	X				CCD
Vanillin	0.1					X	X				CCD
Propylene Glycol	2.0		X								Merck 8
Caramel Color	0.5				0	X	X				CCD
Water	to 100										
Lemon Extract											
Oil of Lemon (see flavoring)	0.1										
Citrol (not in file)	0.1										
Propylene Glycol	8		X								Merck 8
Citric Acid	1			X	0	X	0				CCD Heukelekian
Tartrazine Yellow Food Color (see coloring)	0.05										

x - may be an effect
 o - no effect
 blank - no information

2095	ROASTED COFFEE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Additives											
Roasted Chicory (see flavoring)											
Cereal											
Decaffeinated											
Trichloroethylene			X		X		X				Merck 8
Chloroform			X	X	O	O	X				Merck 8 Hackh's Heukelekian
Benzene			X	X		O	X				Merck 8 Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2111	CIGARETTES			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Tobacco				K-0								
Total Volatile Bases as Ammonia			0.3-0.6		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
Nicotine			1-3									
Ammonia			0.02-0.15		X	0	X					CCD
Glutamine as Ammonia			0.02-0.04		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
Asparagine as Ammonia			0.02-0.1		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
alpha-Amino Nitrogen as Ammonia			0.07-0.2		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2111	CIGARETTES (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Tobacco (Cont'd.)												
Protein Nitrogen as Ammonia			0.9-1.8		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
Nitrate Nitrogen as NO ₃			Trace- 1.7									
Total Nitrogen as Ammonia			1.9-4.0		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
Total Volatile Acids as Acetic Acid			0.09-0.2		X	X	0	X				CCD Heukelekian
Formic Acid			0.03-0.08		X	X	0	0	X			CCD Heukelekian
Malic Acid			2.4-6.7			X	0					Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2111	CIGARETTES (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Tobacco (Cont'd.)										
	Citric Acid	0.8-8.2		X	0	0	0				CCD Heukelekian
	Oxalic Acid	0.8-3.2	X	X	0	0					CCD Heukelekian
	Volatile Oils	0.14-0.25									
	Alcohol-Soluble Resins	8.9-11.3									
	Reducing Sugars as Dextrose (see Glucose)	0.2-22.1		X	0	X					CCD Heukelekian
	Pectin as Calcium Pectate	6.2-12.4								X	
	Crude Fiber	6.6-21.8									CCD
	Ash	10.8- 24.5									

x - may be an effect
 o - no effect
 blank - no information

2111	CIGARETTES (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%	REF.									
	Flavorings (Cont'd.) may contain: Oil of Peppermint Oil of Clove Oil of Cinnamon Paper Calcium Carbonate Salts Citrates Phosphates	13-20										CCD CCD Merck 8 CCD

x - may be an effect
 o - no effect
 blank - no information

2121	CIGARS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Tobacco			K-0								
Total Volatile Bases as Ammonia		1.05-1.5	X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Nicotine		0.9-2.7	X		0	X					CCD
Ammonia		0.3-1.0	X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Total Amide as Ammonia		0.16- 0.26	X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Protein Nitrogen as Ammonia		2.1-3.3	X		0	0	X				Hackh's CCD Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2121	CIGARS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Tobacco (Cont'd.)												
Total Nitrogen as Ammonia			4.7-5.8		X	0	0	X				Hackh's CCD Merck 8 Toxic Sub
Ash			22.3- 24.9									

x - may be an effect
 o - no effect
 blank - no information

2131	CHEWING AND SMOKING TOBACCO		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Pipe Tobacco		K-0									
Tobacco											
Licorice											
Sweetening Agents	} see flavoring										
Sugars				X	0	X	0				CCD Heukelekian
Chewing Tobacco											
Tobacco											
Honey											
Sugars				X	0	X	0				CCD Heukelekian
Molasses											
Syrups											

x - may be an effect
 o - no effect
 blank - no information

2131	CHEWING AND SMOKING TOBACCO (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chewing Tobacco (Cont'd.)											
Licorice											
Betel Nut							X				CCD
may contain:											
Tarlike material extracted by boiling green leaves in water											
Slaked Lime			X		X	X					Merck 8
Wood Ash (see Potash)					O	X					CCD
Dark, Fire-Cured Tobacco											
Smoke and products absorbed from open hardwood fire											

x - may be an effect
 o - no effect
 blank - no information

2231	WOVEN WOOL FABRICS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Insectproofing				K-0									
Chlorinated Aromatic Sulfonic Acid													
Dieldrin					X		X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2256	KNIT FABRICS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.							
Cotton and Rayon Knit Coatings					K-0							
Vinyl Compounds												CCD
Polyvinyl Chloride						X	X	0				CCD
Vinyl Acetate Copolymers						X	0					CCD
Vinylidene Chloride							0					CCD
Polyvinyl Chloride - Vinyl Butyral Copolymers (see Vinyl Copolymers)												
Solvents												
Hot Methyl Ethyl Ketone				} see Ketones								
Methyl Isobutyl Ketones												
Plasticizers												
Tricresyl Phosphate					X	X			0			Merck 8
Diocetyl Phthlate						X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2261	FINISHED COTTON BROADWOVEN FABRICS (INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fire Retardants		Amerdye									
Non-durable											
Nitrogen/Phosphorus											
Ammonium Phosphate					0	X	0	X			CCD Merck 8 Hackh's
Ammonium Sulfamate			X		0	X					CCD Toxic Sub
Borax			X		0	X					CCD Toxic Sub
Boric Acid			X		0	X	0				Hackh's Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2261	FINISHED COTTON BROADWOVEN FABRICS (INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fire Retardants (Cont'd.)											
Semi-durable											
Urea Phosphate								X			
Dicyandiamide					0	X					CCD
Phosphoric Acid			X		0	0	0				CCD
Durable											
Tetrakis Hydroxymethylphosphonium Chloride											
Tris AziridinyI Phosphine Oxide											
Antimony Oxides			X		X						Merck 8
Chlorinated Compounds											
N-methylal dialkylphosphonopropionamide											

x - may be an effect
 o - no effect
 blank - no information

2262	FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fiberglass and Woven Rayon		K-0									
Coatings											
Vinyl Compounds (see SIC 2256)											CCD
Rayon											
Cellulose				X	X	X					Merck 8 Heukelekian
Sodium Hydroxide			X		O						Merck 8
Carbon Disulfide			X		X	X	X				CCD
Modifiers											
Ethoxylated Natural Fatty Amines											
Synthetics											
Polyethylene Glycol			X	X	O	X					Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2262	FINISHED MANMADE FIBER AND SILK BROADWOVEN FABRICS (INCLUDING COMMISSION RECEIPTS FOR JOB FINISHING (Cont'd.))		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Rayon (Cont'd.)											
Modifiers (Cont'd.)											
Dimethylamine			X		0		X				Merck 8
Formaldehyde			X	X	0	0	X				CCD Heukelekian
Resin Finishes											

x - may be an effect
 o - no effect
 blank - no information

2269	FINISHED YARN, RAW STOCK, AND NARROW FABRICS EXCEPT KNIT AND WOOL (NOT SPUN, THROWN, WOVEN OR BRAIDED IN SAME ESTABLISHMENT)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Non-woven Cotton Coating Vinyl Compounds (see SIC 2256)											CCD

x - may be an effect
o - no effect
blank - no information

2279	CARPETS AND RUGS, N.E.C.												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Rug Dyes				Gleason				X					CCD
Aniline Dye					X	X		O	X				CCD Heukelekian
Acetic Acid						X	O	X	O				CCD Heukelekian
Citric Acid						X							
Diethylene Glycol						X		O	O				CCD Heukelekian
Sodium Chloride					X		O	X					Merck 8
Dyes for Rug Fabric													
Dyestuff			3.35-40					X					CCD
Alkyl Amyl Sodium Sulfate			8										CCD
Sodium Chloride			78		X		O	X					Merck 8
Toluene			to 60		X	O	X		X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2279	CARPETS AND RUGS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dyes for Rug Fabric (Cont'd.)											
Isopropyl Alcohol	to 40			X	0	0					CCD Heukelekian
may contain:											
Soap											
Sodium Sulfate					0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2295	COATED FABRICS, NOT RUBBERIZED		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Glass Fabrics		K-0									
Coating											
Epoxy Compounds											CCD
Polyester Compounds											CCD
Duck and Canvas		Gleason									
Coating											
Oleoresinous Compounds (Balsams)					X	X	X				CCD
Preservatives											
Pentachlorophenol	less than 5		X		X		X				Merck 8
Tetrachlorophenol	less than 5		X			X	X				CCD
2-Chlorophenylphenol	less than 5					X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2295	COATED FABRICS, NOT RUBBERIZED (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Duck and Canvas (Cont'd.)											
Preservatives (Cont'd.)											
Petroleum Solvents (distillates)											
Orthodichlorobenzene	1		X		X						Merck 8
Synthetic Resins											
Diacetone Alcohol						0	X				CCD
Copper Naphthenate						X					CCD
Cotton Sheeting		K-0									
Coatings											
Oleoresinous Compounds											
Phenolic Compounds											
Melamine					X						CCD

x - may be an effect
 o - no effect
 blank - no information

2298	CORDAGE AND TWINE											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Natural Fibers			K-0			X						CCD
Abaca												
Paper												
Hemp												
Flax												
Henequen												
Sisals												
Jute												
Cork												
Cotton												
Lubricants, Oils				X						X		Gleason

x - may be an effect
 o - no effect
 blank - no information

2298	CORDAGE AND TWINE (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Synthetic Fibers													
Nylon												CCD	
Dacron													
Fiberglass													
Saran													
Polyethylene				X				O				CCD	
Polypropylene							X					CCD	

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C.			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Linen				K-0								
Water			8.6-10.7									
Aqueous Extract			3.7-6									
Fat			2.3-2.4									
Wax						X	X					CCD
Cellulose			71.5-82.6		X	X	X					Merck 8 Heukelekian
Ash			0.7-1.3									
Intercellular Matter			2.7-9.4									
Non-wovens				Krcma								
Fibers												
Cotton						X						CCD
Wool												

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Non-wovens (Cont'd.)													
Fibers (Cont'd.)													
Viscose Rayons													
Polyvinyl Chloride						X	X	O				CCD	
Polyvinyl Alcohol						O	X	X				Merck 8	
Vinyllic Copolymers (e.g. Saran)													
Polyester													
Polyamide													
Fibrillating Synthetics			Buresh									CCD	

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Non-wovens (Cont'd.)											
Binders		Buresh									
Water Based Emulsions											CCD
Butadiene/Acrylonitrile											
Polyvinyl Chloride					X	X	0				CCD
Polyvinyl Acetate			0		X	0	0				CCD
Polyvinyl Alcohol	90 of all fabrics				0	X	X				Merck 8
Chlorinated Rubber											CCD
Polyacrylates					X	0					CCD
Butadiene/Styrene						X					CCD
Natural Latex						X					CCD
Phenolic Emulsions											

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Non-wovens (Cont'd.)													
Binders (Cont'd.)													
Fibers												CCD	
Thermoplastics													
Plasticized Cellulose Acetate													
Vinylchloride							X	X				CCD	
Dacron (undrawn polyester)													
Polyethylene Staple													
Non-thermoplastic													
Fibrids													
Self-bonding Viscose													

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Non-Wovens (Cont'd.)											
Binders (Cont'd.)											
Dry Powders											
Acrylic Beads					X	0					CCD
Vinyl Beads											CCD
Phenolics											
Phenolic Resin											
Urea Formaldehyde							0				CCD
Regenerated Cellulose											
Cellulose Xanthate											
Adhesives		Krcma									
Formula I											
Hycar 1571	41										

x - may be an effect
 o - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Non-Wovens (Cont'd.)													
Adhesives (Cont'd.)													
Formula I (Cont'd.)													
Melamine/Formaldehyde Precondensate		4				X						CCD	
Ammonium Chloride		0.2		X		0	X	0				CCD Merck 8 Toxic Sub	
Water		53.8											
Formula II													
Latex 235 Chemigum		54					X					CCD	
Zinc Oxide		3				X	X	0				CCD	
Zetox Accelerator		25											
Titanium Dioxide		3		X		X	X					Merck 8	

x - may be an effect
 o- - no effect
 blank - no information

2299	TEXTILE GOODS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Non-Wovens (Cont'd.)											
Adhesives (Cont'd.)											
Formula II (Cont'd.)											
Aerotex M-3 Melamine Resin		14			X						CCD
M-X Accelerator		6									
DCY Buffer		1.5									
Paraplex 6-25 Plasticizer											

x - may be an effect
 o - no effect
 blank - no information

2342	CORSETS AND ALLIED GARMENTS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Elastic		85	K-0									
Spandex												
Synthetic Polymer												CCD
Polyurethane												CCD
Elastomer												
Natural Polymer												CCD
Synthetic Polymer											CCD	

x - may be an effect
 o - no effect
 blank - no information

2399 08	PARACHUTES													
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Fabric			85	K-0										
Nylon														CCD
Rayon														CCD
Polyester														CCD
Ester of Dihydric Alcohol														
Tere Phthalic Acid								X	X					CCD
Cord														
Plaited Nylon													CCD	

x - may be an effect
 o - no effect
 blank - no information

2426	HARDWOOD DIMENSION AND FLOORING			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Floor (Wood)				Gleason								
Magnesium Fluorosilicate							X				X	Hackh's
Sodium Zinc Silicate												
Sulfates												

x - may be an effect
 o - no effect
 blank - no information

2491	WOOD PRESERVING			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Preservatives				K-O								
Creosote					X	X	X	X				CCD
Pentachlorophenol					X	X		X				Merck 8
Copper-Chrome-Arsenate												
Ammoniacal-Copper-Arsenate												
Double Diffusion Process												
Copper, Zinc, Nickel Solutions												
Sodium Chromate, Arsenate, Fluoride, Borate, Phosphate												
Flame Retardants												
Ammonium Phosphate, Monobasic						O	X		X			CCD
Ammonium Sulfate						O	X					CCD
Zinc Chloride					X	O	X	O				Merck 8 Gleason

x - may be an effect
 o - no effect
 blank - no information

2491	WOOD PRESERVING (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Flame Retardants (Cont'd.)											
Dicyandiamide					0	X					CCD
Phosphoric Acid			X		0	0	0				CCD
Borax			X		0	X					CCD Toxic Sub
Boric Acid			X		0	X	0				Hackh's Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2511	WOOD HOUSEHOLD FURNITURE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Wood										
	Lacquer (see SIC 2851 5 for more information)										CCD
	Nitrocellulose	35	X								CCD
	Non-drying Alkyd	25	X								Merck 8
	Phthalic Acid	33									
	Coconut Oil Acid	43									
	Hard Resin, Synthetic	25									CCD
	Polymeric Plasticizer	7.5									CCD
	Dibutyl Phthalate	7.5		X		0					Hackh's Heukelekian
	Finish										
	Urea-Formaldehyde Resin	32					0				CCD

x - may be an effect
 o - no effect
 blank - no information

2511	WOOD HOUSEHOLD FURNITURE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Wood (Cont'd.)										
	Finish (Cont'd.)										
	Oxidizing Alkyd	25	X								Merck 8
	Phthalic Acid	43									
	Soya Oil Acid	60									
	Phenol-Formaldehyde Resin	3									CCD
	Xylene Solids	45									
	Maleic Resin Ester	8									
	Xylene Solids	40									
	Xylene	6	X	O	X						Merck 8 Heukelekian
	Methyl Ethyl Ketone	11									CCD
	Ethanol	10	O	X	O	X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2511	WOOD HOUSEHOLD FURNITURE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wood (Cont'd.)											
Finish (Cont'd.)											
1-Butanol	5		X	X			X				Merck 8 Heukelekian
Acid Catalyst (Ester of Butanol and Phosphoric Acid)	1										

x - may be an effect
 o - no effect
 blank - no information

2512	UPHOLSTERED HOUSEHOLD FURNITURE			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
See SIC 2511												

x - may be an effect
 o - no effect
 blank - no information

2514	METAL HOUSEHOLD FURNITURE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Chrome - Nickel-Chromium Steel											
Zinc					X	X					CCD
Antiqued Bronze											
Lacquer (see SIC 2851 5)											
Varnish (see SIC 2851 3)											
Nylon											
Vinyl Compounds											
Teflon											
Polyethylene			0				0		X		CCD
Polyester											
Polypropylene						X					CCD
Polyvinyl Chloride					X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2514	METAL HOUSEHOLD FURNITURE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Latex Sheeting (temporary)					X	X					CCD
Penton						X					CCD
Acrylic Hydrosol (see acrylics)					X	O					CCD
Porcelain											
Nylon Pile											
Epoxy Resin Adhesives (see SIC 2891 171)											

x - may be an effect
 o - no effect
 blank - no information

2515	MATTRESSES AND BEDSPRINGS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Filling				Cons Rept								
Polyurethane Foam												CCD
Hair, Animal												
Hair, Animal, Coated with Rubber, Natural												
Rubber Fiber, Natural							X					CCD
Foam (Rubber, Synthetic)												CCD
Sisal (see Natural Fibers)						X						CCD
Cover												
Cotton (see Natural Fibers)						X						CCD
Plastic Film (see SIC 2256 Coatings)												
Frame												
Wood												

x - may be an effect
 o - no effect
 blank - no information

2515	MATTRESSES AND BEDSPRINGS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Frame (Cont'd.)													
Batting - Flame Resistant Cotton (see SIC 2256 Coatings)													
Springs													
Steel Springs			ASTM										
Carbon		0.45-.70											
Manganese		0.6-1.2											

x - may be an effect
 o - no effect
 blank - no information

2519	HOUSEHOLD FURNITURE, N.E.C.			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Natural Fibers				K-0			X					CCD
Rattan						X						CCD
Reed						X						CCD
Malacca Cane						X						CCD
Willow						X						CCD
Wicker						X						CCD
Plastic												
Acetal Copolymers												
Aerylonitrile Butadiene Styrene					0							CCD
Acrylate Styrene Aerylonitrile						X	0					CCD
Polyamides												CCD
Polypropylene							X					CCD

x - may be an effect
 o - no effect
 blank - no information

2519	HOUSEHOLD FURNITURE, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chairs Polypropylene						X					CCD

x - may be an effect
 o - no effect
 blank - no information

2522	METAL OFFICE FURNITURE			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Chrome (Nickel-Chromium Steel)			Furn Des									
Zinc						X	X					CCD
Antiqued Bronze												
Lacquer (see SIC 2851 5)												
Varnish (see SIC 2851 3)												
Nylon												
Teflon												
Vinyl Compounds												
Polyethylene				O				O		X		CCD
Penton												
Polyester												
Polypropylene							X					CCD

x - may be an effect
 o - no effect
 blank - no information

2522	METAL OFFICE FURNITURE (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Polvinylchloride						X	X	0				CCD
Latex Sheeting (temporary)						X	X					CCD
Acrylic Hydrosol (see Acrylics)						X	0					CCD
Nylon Pile												
Epoxy Resin Adhesives (see SIC 2891 171)												
Porcelain												

x - may be an effect
 o - no effect
 blank - no information

2591	VENETIAN BLINDS AND SHADES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Slats				Thomas'									
Wood													
Steel													
Plastic - Acetal Copolymers													
Aluminum					X		X						Merck 8
Laminated Metals													
Tapes													
Cotton (see SIC 2261)													
Plastic				Plastics									
Polyvinyl Chloride							X	X	0				CCD
Polyethylene									0		X		CCD
Chlorinated Polyethylene							X						CCD

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chemical Additives		API 3/70									
Starches				X	X	X					CCD Heukelekian
Corn					X	X					CCD
Potato					X	X					CCD
Tapioca					X	X					CCD
Wheat					X	X					CCD
Milo					X	X					CCD
Natural Gums					O						CCD
Guar					O						CCD
Locust Bean					O						CCD

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chemical Additives (Cont'd.)											
Casein Plus Soy Protein				X	X	X	O				CCD Heukelekian
Animal Glue											CCD
Rosin and Rosin Size					X	X					CCD
Alkylketene Dimer Emulsion											
Urea Formaldehyde Resin							O				CCD
Melamine Formaldehyde Resin					X						CCD
Polyamide Resins											CCD
Waxes					X	X					CCD
Polyethelene Resins			O				O				CCD
Styrene Resins			X		X	X	X		X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chemical Additives (Cont'd.)											
Polyvinyl Acetate Latex			0		X	0	0				CCD
Polyvinyl Acetate Resin			0		X	0	0				CCD
Acrylic Latex					X	0					CCD
Styrene Butadiene Latex						X					CCD
Defoamers											
Clay											
Titanium Dioxide			X		X	X					Merck 8
Calcium Carbonate					X	X	0				CCD
Slimacides											
Alum					0	X	0				Merck 8 CCD
Carboxymethyl Cellulose			0	X	0	X	X				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chemical Additives		Britt									
Starches				X	X	X					CCD Heukelekian
Natural Gums						O					CCD
Rosin					X	X					CCD
Urea-Formaldehyde Resin							O				CCD
Melamine-Formaldehyde Resin					X						CCD
Polyamide Resin											CCD
Waxes					X	X					CCD
Antifoams											
Clay											CCD
Titanium Dioxide			X		X	X					Merck 8
Calcium Carbonate					X	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Chemical Additives (Cont'd.)													
Dyes and Colored Pigments							X						CCD
Slimacides													
Surface Active Agents													
Alum							0	X	0				Merck 8 CCD
Sodium Aluminate							0	X					CCD
Coatings													
Pigments							X	X					CCD
Paraffin Wax							X	X					Merck 8
Bituminous Asphalt							X	X	X				CCD
Natural and Synthetic Lacquers and Varnishes (see SIC 2851 12, 2851 5)													

x - may be an effect
 o - no effect
 blank - no information

2621	PAPERMILL PRODUCTS, EXCEPT BUILDING PAPERMILLS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Coatings (Cont'd.)												
Animal Glues												
Rubber Base, Pressure Sensitive Adhesives (see SIC 3069)												

x - may be an effect
 o - no effect
 blank - no information

2621 100	NEWSPRINT													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Paper					K-0									
Unbleached Ground Wood														
Filler														
Kaolin								X	X	X				CCD
or														
Precipitated Calcium Carbonate						X		X	X	0				Merck 8
Rosin								X	X					CCD
Starch							X	X	X					CCD
														Heukelekian
Ink - Newsprint Black														
Carbon Black				10-15				X	X					CCD
Induline Toner				2-3						X				Hackh's
Mineral Oil				67-85								X		CCD
Mineral Oil - Low Viscosity				3-15								X		CCD

x - may be an effect
 o - no effect
 blank - no information

2641	COATED AND GLAZED PAPER		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Latex Coating		K-0									
Pigment	68.5-85.5										
Rutile Titanium Dioxide	5-20		X		X	X					Merck 8
Clay	80-95										CCD
Phthalocyanine Blue	0.5					X					
Solubilized Protein	1.5-4				X						Hackh's
Butadiene - Acrylonitrile Copolymer Latex (see Nitrile Rubber)	12.5-22.5										
Surface Active Agents	1-5										
Grease and Waterproof Coating											
First Coat											
Butadiene - Acrylonitrile Copolymer Latex (see Nitrile Rubber)	87										

x - may be an effect
 o - no effect
 blank - no information

2641	COATED AND GLAZED PAPER (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Grease and Waterproof Coating (Cont'd.)											
First Coat (Cont'd.)											
Good-rite K-710 (BF Goodrich Trade Name)	3										
Diacetone Alcohol	10					0	X				CCD
Second Coat											
Butadiene - Acrylonitrile Copolymer Latex	97										
Paraffin Wax	3				X	X					Merck 8
Ammonium Caseinate	to thicken										
Moisture Proof and Heat Sealing											
SS Nitrocellulose	50										
Dammar, Dewaxed (see Gums)	8				0						CCD
Neolyn 23 (see Alkyd Resin)	12		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2641	COATED AND GLAZED PAPER (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Moisture Proof and Heat Sealing (Cont'd.)											
Dibutyl Phthalate	7			X		0					Hackh's Heukelekian
Paraffin Wax	3				X	X					Merck 8
Dicyclohexyl Phthalate	20				X	X	X				CCD
Waterproof											
Asphalt					X	X	X				CCD
Polyethylene			0				0		X		CCD
Microcrystalline Wax					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2647	SANITARY PAPER PRODUCTS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Formula I			Pat #1									
Non-Woven, Water Dispersible Inner Layer												
Cellulosic Fibers					X	X	X					Merck 8 Heukelekian
Binder - Non-irritating, Reversibly Crosslinked Water Insoluble Polymer, Acid or Alkali Degradable												
Formula II			Pat #2									
Alkali Cellulose												
Carbon Disulfide				X		X	X	X				CCD
Acrylonitrile				X	X		0					CCD Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2647	SANITARY PAPER PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II (Cont'd.) Sodium Hydroxide		Pat #4	X		O						Merck 8
Formula III Hydrolically Entangled Rayon Fibers											
Sodium Chloroacetate		Pat #3			O	X	O				CCD
Sodium Hydroxide			X		O						Merck 8
Formula IV Wood Pulp											CCD
Cellulosic Fiber				X	X	X					Merck 8 Heukelekian
Perfume	0.3		X		X	X	X				CCD K-O

x - may be an effect
 o - no effect
 blank - no information

2647	SANITARY PAPER PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula IV (Cont'd.)											
Bactericide	23										
Guargum (see Gums, Natural)	26				O						CCD
Sodium Carboxymethyl Cellulose	26		O	X	X	X	X				CCD Merck 8 Heukelekian
Aluminum Silicate	18				X	X					Merck 8 Hackh's
Alkyl Naphthalene Sulfonate	6.7										

x - may be an effect
 o - no effect
 blank - no information

2649 1	STATIONERY, TABLETS, AND RELATED PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Alpha-Cellulose	95	Britt		X							Heukelekian
Copper	1		X			X					Merck 8
Rosin	1.2-2.5				X	X					CCD
Animal Glue											
Starch				X	X	X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2653	CORRUGATED AND SOLID FIBER BOXES			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Lignin, Insoluble			38.3	ADL		0	X					Heukelekian
Starch Adhesive					X	X	X					CCD Heukelekian
Alum						0	X	0				Merck 8 CCD
Resin-Urea Formaldehyde								0				CCD
Wood Pulp, Soluble						0						CCD
Hydrogen Sulfide					X	0	0	X				CCD
Sulfur Dioxide					X	0	0	X				CCD
Dyes							X					CCD
Inks (see SIC 2893)												

x - may be an effect
 o - no effect
 blank - no information

2834 291	PHARMACEUTICAL PREPARATIONS, EYE AND EAR		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ophthalmic Preparations		Gleason									
Mercuric Oxide Ointment											
Mercuric Oxide	1.0-2.0		X		X	X					CCD
Thimerosal (Merthiolate)	0.1		X		O	X					Merck 8
may contain:											
Piperocaine	0.5-5				O	X	O				CCD
Benzocaine	0.5-5				X	X	O				Hackh's CCD
Boric Acid	5.0		X		O	X	O				Hackh's Merck 8 Toxic Sub
Cortisone Ointments											
Cortisone Acetate	0.5-3.5				X	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 291	PHARMACEUTICAL PREPARATIONS, EYE AND EAR (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ophthalmic Preparations (Cont'd.)											
Cortisone Ointments (Cont'd.)											
may contain:											
Neomycin	0.5-3.5										CCD
Antibiotics											
Terramycin (see Oxytetracycline Hydrochloride)	0.1				0	X	0				CCD
Polymyxin B	10,000 units		X								CCD
Bacitracin	500 units		X		0	X	X				CCD Toxic Sub
Neomycin	0.3										CCD
Miscellaneous											
Antihistamincs (see Thenylpyramine)	0.5		X		0						Merck 8

x - , may be an effect
o - no effect
blank - no information

2834 5 PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Suppositories		Gleason									
Rectal											
Zinc Oxide	2.5-14				X	X	0				CCD
Bismuth Salts (usually sub-gal late)	2-7				X	X	0				CCD
Catechol Amines (Ephedrine or Epinephrine derivatives) (see Epinephrine)	0.14-2				X	X	0				Merck 8 CCD
Anesthetics											
Benzocaine	0.2-6.5				X	X	0				Hackh's CCD
Nupercaine					X	0	0				CCD
Diperodon											
Balsam	3				X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 5	PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
TYPICAL CHEMICAL COMPOSITION			%										REF.
Suppositories (Cont'd.)													
Rectal (Cont'd.)													
Base													
Cocoa Butter			} to 100	X	X	X	X					CCD	
or													
Carbowax					0	0							Merck 8
or													
Hydrogenated Vegetable Oils												CCD	
Vaginal: Popular modern forms are usually compressed tablets made with lactose as a base.			2-3		X	0	X	0				CCD Heukelekian	
may contain:													
Gentian Violet					0	0	X	0				CCD Heukelekian	
Hydrocortisone						X	X	0				CCD	

x - may be an effect
o - no effect
blank - no information

2834 5		PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Suppositories (Cont'd.)												
Vaginal (Cont'd.)												
may contain (Cont'd.)												
Antibiotics												Hackh's
Chemotherapeutic Agents												
Vaginal Douches												
Formula I												
Boric Acid		25-85		X		0	X	0				Merck 8 Toxic Sub
Zinc Salts - Sulfate		4-12.5				0	0	0				CCD
may contain:												
Phenolsulfonate		2-5				0	X					CCD
Alum		1-14				0	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 5	PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Vaginal Douches (Cont'd.)													
Formula I (Cont'd.)													
may contain (Cont'd.)													
Phenols			less than 1		X	X	0	0	X				Merck 8 Heukelekian
Essential Oils (Menthol, Eucalyptol, Lavendar and Methyl Salicylate)			less than 1		X		X	X	X		X		CCD K-O
Organic Acids													
Citric							0	X	0				CCD
Salicylic					X	X	X	X					Merck 8 Heukelekian
Formula II Generally Contain:													
Zinc Salts - Sulfate			4-5				0	0	0				CCD
Phenolsulfonate			7				0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2834 5		PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Vaginal Douches (Cont'd.)												
Formula II Generally Contain (Cont'd.):												
Oxyquinoline Sulfate or Citrate		2-15				0	X	X				Merck 8
Sodium Bicarbonate		12-90		X		0	X					Merck 8
Organic Acids												
Tartaric Acid		15-25			X	0	X	0				CCD Heukelekian
Lactic Acid					X		X	0				CCD Heukelekian
Citric Acid					X	0	X	0				CCD Heukelekian
Carbohydrates		10-25										CCD
Phenols		less than 1		X	X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 5	PHARMACEUTICAL PREPARATIONS, ACTING ON THE DIGESTIVE OR THE GENITO-URINARY SYSTEMS, FOR HUMAN USE (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Vaginal Douches (Cont'd.)													
Formula II Generally Contain (Cont'd.):													
Anionic Detergent			2-3										CCD
Essential Oils			1-2		X	X	X	X					CCD K-O
Miscellaneous													
Sodium Caprylate						X	O	X					CCD Heukelekian
Alkylarylsulfate			35										
Sodium Sulfate			53				O		O				Merck 8
Oxyquinoline Sulfate Dispersant							O	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Bleach and Freckle Ointments											
Petrolatum						0	0				Merck 8
Mineral Oil									X		
Lanolin			X		X	X	X				Merck 8
may contain:											
Ammoniated Mercury			X		X	X	0				CCD
Bismuth Subnitrate					X	X		0			CCD
Hydroquinone				X	0	X					CCD Heukelekian
Mercuric Chloride			X		0	X	0				CCD
Mercuric Oxide			X		X	X					CCD
Mercurous Chloride (Calomel)			X		X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Bleach and Freckle Ointments (Cont'd.) may contain: Monobenzene (Hydroquinone Monobenzyl Ether) Oxalic Acid Zinc Oxide Zinc Peroxide					X	X	0				CCD
			X	X	0	0					CCD Merck 8 Heukelekian
					X	X	0				CCD
					X	X					CCD
Chapsticks Digalloyl Trioleate Camphor Menthol					X	0	X				Merck 8 Toxic Sub
			X		X		X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chapsticks (Cont'd.)											
Benzoin					X	X	X				CCD
Lanolin			X		X	X	X				Merck 8
Balsam Peru					X	X	X				CCD
Glycerin			X	X	O	X	O				CCD Merck 8 Heukelekian
Petrolatum											
Esters											CCD
Beeswax					X	X	X				CCD Merck 8
Silicone					X						CCD
Cetyl Alcohol					X	X	X				CCD
Allantoin					O	X	O				

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Chapsticks (Cont'd.) Salicylates Hexachlorophene Cocoa Butter Perfume Ointments Boric Acid Lanolin Menthol Camphor	1-5	Gleason										
					X	X	O				CCD Merck 8	
					X	X	X				CCD	
			X		X	X	X				CCD K-O	
			X		O	X	O				Hackh's Merck 8 Toxic Sub	
			X		X	X	X				Merck 8	
			X		X		X				Merck 8	
			X		X	O	X				Toxic Sub Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ointments (Cont'd.)											
Petrolatum											
Methyl Salicylate			X		X	X	X		X		CCD Merck 8
Hexachlorophene	1				X	X	O				CCD Merck 8
Benzyl Alcohol	2		X	X	X	X	X				CCD Merck 8 Toxic Sub Hackh's Heukelekian
Iodine and Mercury Antiseptics											
Formula I											
Iodine	5		X		X	X	X				Merck 8
Methyl Salicylate	8		X		X	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 6	PHARMACEUTICAL PREPARATIONS ACTING ON THE SKIN FOR HUMAN USE (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Iodine and Mercury Antiseptics (Cont'd.)												
Eucalyptus Oil		1				X	X	X		X		CCD
Phenylmercuric Nitrate		0.1 gm		X		X	X		0			CCD
Alcohol		50			X	0	0	X				CCD Heukelekian
Acetone		10		X	X		0	X				CCD Toxic Sub Heukelekian
Zinc Ointment												
Zinc Oxide		15				X	X	0				CCD
Lanolin				X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 611	DERMATOLOGICAL PREPARATIONS, EMOLLIENTS AND PROTECTIVES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Burn Ointments			Pharmaco- poeia								
Benzocaine					X	X	0				Hackh's CCD
Glycerol Monostearate						X	X				CCD
Stearic Acid				X	X	0	X				CCD Heukelekian
Menthol			X		X		X				Merck 8
Camphor			X		X		X				Merck 8 Toxic Sub
Hexachlorophene					X	X	0				CCD Merck 8
Orthophenylphenol			X		X	X	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 613	ANTIPURITICS AND LOCAL ANESTHETIC SKIN PREPARATIONS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chloroprocaine Hydrochloride [2-(Diethyl amino) ethyl-amino-2 chlorobenzoate hydrochloride]		Pharmaco- poeia									
Cocaine Hydrochloride			X		O	X					CCD
Dibucaine Hydrochloride [2-n-butoxy-n-(2-diethylaminoethyl)-cinchoninamide Hydrochloride]			X		O	X	O				CCD Toxic Sub
Lidocaine Hydrochloride [2-(Diethylamino)-2', 6'-acetoylidide hydrochloride]											
Procaine Hydrochloride [2-(Diethylamino)-para-aminobenzoate hydrochloride]					O	X	O				CCD
Tetracaine [2-(dimethylamino)ethyl para (butylamino) benzoate]					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2834 613	ANTIPURITICS AND LOCAL ANESTHETIC SKIN PREPARATIONS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Skin Anesthetics		Gleason									
Dibucaine			X		X	X	0				CCD
or	0.5-1										Toxic Sub
Benzocaine					X	X	0				Hackh's CCD
Phenol			X	X	0	0	X				Merck 8 Toxic Sub Heukelekian
Anhydroparahydroxymercurimetacresol											
Zinc Oxide					X	X	0				CCD
Aluminum Hydrate					X	X	0				Hackh's CCD
Eucalyptus Oil					X	X	X		X		CCD
Thyme Oil					X	X	X		X		CCD
Oleostearin											
Amber Petrolatum											

x - may be an effect
 o - no effect
 blank - no information

2834 617 ANTI-ACNE AND ANTISEBORRHEIC PREPARATIONS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Acne Cream		Gleason									
Sulfur	2.5		X		X	X					Merck 8
Resorcinol	1-3		X	X	O	X					Merck 8 Heukelekian
Hexachlorophene	0.25-1				X	X	O				CCD Merck 8
may contain:											
Parachlorometaxylenol	0.4		X		O		X				Merck 8
Microporous Cellulose				X	X	X					Merck 8 Heukelekian
Hydrocortisone Acetate	0.25				X	X	O				CCD
Allantoin					O	X	O				Hackh's CCD
Calamine					X	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 617		ANTI-ACNE AND ANTISEBORRHEIC PREPARATIONS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Acne Cream (Cont'd.)													
may contain (Cont'd.):													
Isopropyl Alcohol						X	O	O					CCD Heukelekian
Iron Oxide							X						CCD
Bithinol		1					X	X	X				Hackh's CCD
d-Panthenol		0.5					O						CCD
Methylparaben		0.2					X	X	X				CCD Merck 8
Zinc Oxide		10					X	X	O				CCD
Anti-Seborrheic													
Sodium Solamyd (sulfacetamide sodium)		100mg/gm					O	X	O				CCD
Methylparaben		1 mg/gm					X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 617	ANTI-ACNE AND ANTISEBORRHEIC PREPARATIONS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Anti-Seborrheic (Cont'd.)											
Salicylic Acid	2		X	X	X	X					Merck 8 Heukelekian
Liquor Carbonis Detergens	3										
Alkylphenoxypolyethanol											
Sulfate Esters											
Sulfur	2		X		X						Merck 8
Hexachlorophene	1				X	X	O				CCD Merck 8
Tar	0.5				X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 621	HEMORRHOIDAL PREPARATIONS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula I		Gleason									
Benzocaine	3-5				X	X	O				Hackh's CCD
External Hamamelis											
Ichthammol					O	X	X				CCD
Zinc Oxide					X	X	O				CCD
Alum					O	X	O				CCD Merck 8
Carbolic Acid			X		O	O	X				Merck 8
Bismuth Subnitrate					X	X					CCD
Formula II											
Live Yeast Cell Derivative						X					CCD
Phenyl Mercuric Nitrate			X		X	X			O		CCD
Shark Liver Oil	3					X			X		Hackh's

x - may be an effect
 o - no effect
 blank - no information

2834 621	HEMORRHOIDAL PREPARATIONS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula III											
Powdered Opium											
Phenol			X	X	O	O	X				Merck 8 Toxic Sub Heukelekian
Oil Tar									X		
may contain:											
Boric Acid			X		O	X	O				Hackh's Merck 8 Toxic Sub
Resorcinol			X	X	O	X					Merck 8 Heukelekian
Balsam Peru					X	X	X				CCD
Sulfates											

x - may be an effect
 o - no effect
 blank - no information

2834 631	EXTERNAL ANALGESTICS AND COUNTERIRRITANTS, OINTMENTS, JELLIES, PASTES, CREAMS, CERATES AND SALVES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Rubefacients: These ointments are similar to the liniments but with usually a lanolin or petroleum base and containing three or more of the following:				Gleason									
Camphor			2		X		X		X				Merck 8 Toxic Sub
Oil of Wintergreen (see Methyl Salicylate)			15-40		X		X	X	X		X		Merck 8 CCD
Turpentine			2-15					X	X				CCD
Menthol			5-15		X		X		X				Merck 8
Capsicum			less than 1					X					CCD
Essential Oils					X		X	X	X		X		CCD K-O
Oil of Eucalyptus (with Oil of Cajeput and Eucalyptol)			1-3				X	X	X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2834 631	EXTERNAL ANALGESTICS AND COUNTERIRRITANTS, OINTMENTS, JELLIES, PASTES, CREAMS, CERATES, AND SALVES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Rubefaciants (Cont'd)												
Phenols (various)		1% or less		X	X	0	0	X				Merck 8 Toxic Sub Heukelekian
may contain:												
Various essential oils other than listed: (especially pine, sassafras, cloves, mustard, cedar)		2-3		X		X	X	X		X		CCD K-0
Croton Oil		Small amounts		X			X			X		CCD

x - may be an effect
 o - no effect
 blank - no information

2834 635		EXTERNAL ANALGESICS AND COUNTERIRRITANTS, LIQUID (EXCLUDING RUBBING ALCOHOL BUT INCLUDING LINIMENTS)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Liniments			Gleason									
Chloroform Liniment												
Chloroform		25-30		X	X	O	O	X				Merck 8 Toxic Sub Heukelekian
Alcohol		45			X	O	O	X				CCD Heukelekian
Other Formulas Frequently Contain Several of the Following:												
Camphor		1.0-2.5		X		X		X				Merck 8 Toxic Sub
Oil of Wintergreen (see Methyl Salicylate)		5-35		X		X	X	X		X		Merck 8 CCD
Pine Oil		up to 87						X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2834 635	EXTERNAL ANALGESICS AND COUNTERIRRITANTS, LIQUID (EXCLUDING RUBBING ALCOHOL BUT INCLUDING LINIMENTS) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Turpentine		2-15					X	X				CCD	
Menthol		1-2		X		X		X				Merck 8	
Oil of Eucalyptus (Including Oil of Cajeput and Eucalyptol)		1-3				X	X	X		X		CCD	
Oleo Resin Capsicum		1 or less					X					CCD	
Phenols (various)		1 or less		X	X		0	X				Merck 8 Heukelekian	
may contain:													
Essential Oils in Addition to Those Mentioned (Especially Mustard, Wormwood, Peppermint, Pine, Cedar, Sassafras)		up to 5		X		X	X	X		X		CCD, K-0	
Occasionally Iodine,				X			X	X				Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2834 635	EXTERNAL ANALGESICS AND COUNTERIRRITANTS, LIQUID (EXCLUDING RUBBING ALCOHOL BUT INCLUDING LINIMENTS) (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Ammonia or		small amounts usually less than 2		X		0	0	X				Merck 8 Hackh's CCD Toxic Sub
Acids (mineral and organic)												
Chloroform and Related Compounds (e.g., chloral)		1-30		X	X	0	0	X				Merck 8 Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 8		PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Athlete's Foot			Gleason										
Mostly Copper, Sodium and Zinc Salts of Propionic, Caprylic or Undecylenic Acid in Amounts of 10 to 25%, Occasionally Small Amounts of Borax or Boric Acid (3%) are Present													
Examples:													
Sodium Caprylate					X	0	X					CCD Heukelekian	
Sodium Proprionate					X		0	0				CCD Heukelekian	
Zinc Caprylate						X	X					CCD	
Borax				X		0	X					CCD Toxic Sub	
Boric Acid				X		0	X	0				Hackh's Merck 8 Toxic Sub	

x - may be an effect
 o - no effect
 blank - no information

2834 8	PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Athlete's Foot (Cont'd)													
Examples: (Cont'd)													
Propionic Acid					X	0	0	X				CCD Heukelekian	
may contain:													
Oxyquinoline Benzoate													
Aluminum Sulfocarbolate						0	X	X				Merck 8	
Fungicidal Ointments													
Mainly Caprylic Acid Derivatives, Contain Two or More of the Following:													
Benzoic-Salicylic Acid													
Benzoic Acid		6-12		X	X	X	X					Merck 8 CCD Toxic Sub Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2834 8	PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Salicylic Acid			3-7		X	X	X	X					Merck 8 Heukelekian
may contain:													
Sulfur			1-10		X		X	X					Merck 8
Thymol			ca. 1		X		0	X	X				CCD Merck 8
Caprylic Acid			1-6				X	0	X		X		CCD
Copper Caprylate			0.5-6										
Sodium Caprylate			10			X	0	X					CCD Heukelekian
Zinc Caprylate			3-8				X	X					CCD
may contain other salts or esters:													
Isopropyl Alcohol			10			X	0	0					CCD Heukelekian
Propionates			5-15										

x - may be an effect
 o - no effect
 blank - no information

2834 8 PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Mercury Compounds										
Particularly Phenyl Mercuric Nitrate	0.03-1	X		0	X		X			CCD
Mercury Salicylate										
see Mercury and } Salicylates }	5	X		X	X					CCD Merck 8
Orthomercuronitro-phenol		X		0	X	0				Merck 8
Other Compounds may be present in any or all of the above mixtures										
Borates										
see Borax }		X		0	X					CCD Toxic Sub
Boric Acid }	3	X		0	X	0				Merck 8 Toxic Sub Hackh's

x - may be an effect
 o - no effect
 blank - no information

2834 8		PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Phenols (e.g., Phenol, Thymol, Chlorthymol, Resorcinol)		ca. 1			X	X	0	0	X				Merck 8 Toxic Sub Heukelekian
Wetting Agents - Triethanolamine		2-5			X	X		X	X				Merck 8 CCD Heukelekian
Trimethyl Cetyl Ammonium - Pentachlorophenate		1-2			X								Merck 8
Alkyl Dimethyl Benzyl Ammonium Chloride		0.1			X								Toxic Sub
Dioctyl Sodium Sulfosuccinate		0.1-1.1			X		0						Merck 8
Ethanol						X	0	0	X				CCD Heukelekian
Benzalkonium Chloride					X		0	X	X				CCD Merck 8
Boric Acid					X		0	X	0				Hackh's Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2834 8 PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Gentian Violet	10		0	0	X					CCD Heukelekian
Hexachlorophene				X	X	0				CCD Heukelekian
Iodochlorohydroxyquinoline				X	X	X				CCD
Ammoniated Mercury		X		X	X	0				CCD
Silver Nitrate		X			0	0	X			Merck 8
Ointments:										
Formula I										
Mercury Oleate		X		X	X					CCD
Mercury, Metallic		X		X	X					CCD Merck 8
Lanolin		X		X	X	X				Merck 8
Petrolatum										

x - may be an effect
 o - no effect
 blank - no information

2834 8	PHARMACEUTICAL PREPARATIONS AFFECTING PARASITIC AND INFECTIVE DISEASES, FOR HUMAN USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
White Wax						X	X					CCD	
Formula II													
Ammoniated Mercuric Chloride		5		X		X	X	0				CCD	
Lanolin		5		X		X	X	X				Merck 8	
White Ointment Base		90											

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Pesticides for Pets			Gleason									
Allethrin												
Ammonium Lauryl of Dodecyl Benzene Sulfonate												
Ammonium Lauryl Sulfate												
BHC				X								Toxic Sub
Boric Acid				X		0	X	0				Hackh's Merck 8 Toxic Sub
Butoxypolypropylene Glycol												
Camphor				X		X		X				Merck 8 Toxic Sub
Captan												
Carbaryl												
Chloranil												

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Pesticides for Pets (Cont'd)												
Chlordane				X		X	X	0				CCD Merck 8 Toxic Sub
bis(5-Chloro-2-hydroxyphenyl)-methane												
Copper				X			X					Merck 8
Cube Resins				X								Gleason
DDD												
DDT				X		X	X					Hackh's Merck 8 Toxic Sub
DDVP												
Di-butyl Succinate												
Dichlorophene				X		X						Merck 8
Dichlorvos												

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Pesticides for Pets (Cont'd)													
para-diisobutyl Phenoxy Ethoxy Ethyl-Dimethyl Benzyl					X		O	O					CCD Merck 8
Dimethyl Phthalate													
Dipentene							X	O	X				CCD
Essential Oil					X		X	X	X				CCD K-O
Ethyl Alcohol							X	O	O	X			CCD Heukelekian
Ethylene Glycol					X	X							Merck 8 Heukelekian
Eugenol							X	X	X		X		CCD
Glycerin					X	X	O	X	O				CCD Merck 8 Heukelekian
Hexachlorophene							X	X	O				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Pesticides for Pets (Cont'd)													
Isobornyl Thiocynoacetate					X		X	X	X				Merck 8
Isopropyl Alcohol						X	O	O					CCD Heukelekian
Korian													
Lanolin					X		X	X	X				Merck 8
Lindane					X		X	X	X				CCD
Malathion													
Methoxychlor					X		X	X					CCD
Methylenebischlorophenol					X		X						Merck 8
Naphthalene					X	O	X	X	X				Merck 8 Heukelekian
N-Octyl Bicycloheptene Dicarboximide													
Oil Anise								O	X				CCD
Paracymene					X		X	O					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2834 9		PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Pesticides for Pets (Cont'd)													
Paramethane													
Petroleum					X		X	X	X		X		Merck 8
Petroleum Distillate					X		X	X	X		X		Merck 8
Petroleum Oil					X		X	X	X		X		Merck 8
Pine Oil									X				CCD
Pine Tar													
Piperonyl Butoxide					X						X		Merck 8
Piperonyl Cyclonene													
Propylene Glycol					X								Merck 8
Pyrethrins					X		X						Merck 8
Pyridinium Chloride													
Rotenone					X		X	X	0				CCD
Soap Anhydrous													
Sodium Arsenite													

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Pesticides for Pets (Cont'd)														
Sodium Carboxymethyl Cellulose						0	X	0	X	0				CCD Merck 8 Heukelekian
Sodium Cresylate														
Sulfur						X		X	X					Merck 8
Terpene Hydrocarbon														
Toxaphene														
Vegetable Oil												X		
Flea Powder														
may contain:														
Pyrethrins				0.05- 0.25		X		X						Merck 8
Rotenone				0.3- 0.75		X		X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2834 9 PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Flea Powder (Cont'd)											
may contain (Cont'd)											
Other Cube Resins	0.6-1		X								Gleason
Malathion	0.1-2										
Piperonyl Butoxide	0.6		X								Merck 8
Gamma Isomer of Benzene Hexa- chloride	1		X								Toxic Sub
N, N'-Diethyl Toluamide	0.25										
Dichlorophene	0.50		X		X						Merck 8
Arsenic Trioxide (if present, toxicity rating 3 or 4)	trace		X		0	X	0				CCD Merck 8 Toxic Sub Hackh's
Carbaryl											
Chloranil											

x - may be an effect
o - no effect
blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Flea Powder (Cont'd)												
may contain (Cont'd)												
2,2 dichlorovinyl Dimethyl Phosphate									X			
Lindane				X		X	X	X				CCD
Mercaptobenzothiazole				0		X	X	X				CCD
1-naphthyl N-methylcarbamate												
Perfume Oil (see Essential Oils)				X		X	X	X		X		CCD K-O
Piperonyl Butoxide				X								Merck 8
Soaps, Dog and Cat												
Cocoanut Oil Soap		100					X	X		X		CCD
Olive Oil Soap		30-83					X					Merck 8
Lanolin				X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Soaps, Dog and Cat (Cont'd)												
may contain:												
Chlordane	0.5		X		X	X	0					Merck 8 CCD Toxic Sub
Citrus Oil												
Dichlorodiphenyl Dichloroethane (see: TDE)	0.75		X		X	0						CCD
Dipentene	0.5-2.3				X	0	X					CCD
Ethylene Dichloride			X	X	X		X					Merck 8 Heukelekian
Isoborneol Propionate, Isobornyl Thiocyanoacetate and Related Terpenes	0.02-2		X		X	X	X			X		Merck 8
Isopropyl Alcohol				X	0	0						CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Soaps, Dog and Cat (Cont'd)													
may contain (Cont'd)													
Methylene bis-(trichlorophenol) (Hexachlorophene)		0.5				X	X	0				CCD Merck 8	
Naphthalene		0.5-15		X	0	X	X	X				Merck 8 Heukelekian	
Octachloro-4, 7 methanotetraindane		0.15											
Cube Resins		0.2-2.1		X								Gleason	
Paracymene		0.5-0.8		X		X	0					CCD Toxic Sub	
Petroleum Oils (see Petroleum)		0.2-0.3				X	X			X		Merck 8	
Pine Oil		0.5-1						X				CCD	
Piperonyl Butoxide		0.5-0.9		X						X		Merck 8	
Pyrethrins		0.02- 0.09		X								Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2834 9 PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Soaps, Dog and Cat (Cont'd)											
may contain (Cont'd)											
Rotenone	0.1-0.7		0		X	X	0				CCD
Pine Needle Oil	1.0-2				X	X					Merck 8
Terpenes											
Dog and Cat Repellents											
Liquid											
Isopropyl Alcohol	80			X	0	0					CCD Heukelekian
Water	14										
Lemon Grass Oil	3					X	X				CCD
Eucalyptus Oil	3				X	X	X				CCD
Diethyl Phthalate	1				X	X	0				CCD

x - may be an effect
o - no effect
blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dog and Cat Repellents (Cont'd)												
may contain:												
Aromatic Hydrocarbons (Xylene)		10		X	0							Merck 8 Heukelekian
Bone Oil						0	X	X				CCD
Diethyl Phthalate		80				X	X	0				CCD
Mineral Oil		80										
Nicotine (if present, toxicity rating 5)		ca. 6		X		0	X					CCD
Methyl Nonyl Ketone								X		X		CCD
Oil of Allspice							X	X				CCD
Oil of Mustard							X	X				CCD
Phenols		ca. 1		X	X		0	X				Merck 8 Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 9 PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Pine Tar (see Tar)	ca. 12					X	X				CCD
Soap	ca. 1										
Wood Creosote (see Creosote)	ca. 10		X		X	X	X		X		CCD Toxic Sub
Spray											
Lemon Grass Oil	2-11					X	X				CCD
Citronella Oil			X			X	X		X		CCD Toxic Sub
Synthetic Oil of Mustard (see Allyl Isothiocyanate)	0.05-05		X		X	X	X		X		CCD
Propellants } Inert Ingredients }	93-98										

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sprays, Dog and Cat													
may contain:													
Allethrin			0.075										
Butoxypolypropylene Glycol			6.0-15										
2,3,4,5-bis (2 Butylene-tetra-hydrofurfural)			0.3										
Hexachlorophenes			0.2				X	X	0				CCD Merck 8
Isobornyl Thiocynoacetate			1.64		X		X	X	X				Merck 8
Isopropyl Myristate							X	0	0				CCD
Isopropyl Palmitate							X						CCD
Menthols					X		0		X				Merck 8
Methoxychlor			1		X		X	X					CCD
N-Octyl Bicyclo Heptene Dicarboximide			0.5										

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sprays, Dog and Cat (Cont'd)													
may contain: (Cont'd)													
Other Cube Resins			0.07-0.24		X								Gleason
Petroleum Distillates			0.1-60		X		X		X				Gleason CCD Merck 8
Piperonyl Butoxide			0.26		X						X		Merck 8
Propellant			to 100										
Pyrethrins			0.025		X		X						Merck 8
Related Terpenes			0.36										
Rotenone			0.03-0.13		X		X	X	O				CCD
may also contain:													
DDT					X		X	X					Hackh's Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2834 9 PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Sprays, Dog and Cat (Cont'd)										
may also contain (Cont'd)										
Lindane		X		X	X	X				CCD
Malathion										
Perfume (see Essential Oils)		X		X	X	X				CCD K-O
Propylene Glycol		X								Merck 8
Salicylic Acid		X	X	X	X					Merck 8 Heukelekian
Sodium Lauryl Sulfate				O	X	X				CCD Merck 8
Sulfur		X		X	X					Merck 8
Dry Cleaners, Dog and Cat										
Naphthalene		X	O	X	X	X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 9 PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Dry Cleaners, Dog and Cat (Cont'd)										
Calcium Carbonate				X	X	0			0	CCD
Magnesium Carbonate				X	X				0	Merck 8
Sulfur		X		X	X					Merck 8
Aluminum Silicate				X	X					Hackh's Merck 8
may contain:										
Borax		X	X	0	X					CCD Toxic Sub Heukelekian
Degreased Starch				X	X					CCD
Glycerine		X	X	0	X	0				CCD Merck 8 Heukelekian
Kerosene			X							Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2834 9	PHARMACEUTICAL PREPARATIONS FOR VETERINARY USE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dry Cleaners, Dog and Cat (Cont'd)													
may contain (Cont'd)													
Phenol					X	X		0	X				Merck 8 Toxic Sub Heukelekian
Pine Oil								X					CCD
Sodium Carbonate													
Wetting Agents													
Zinc Oxide							X	X	0				CCD
Pesticides													

x - may be an effect
 o - no effect
 blank - no information

2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C.												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Laundry Bleach Liquid				Gleason									
Formula I													
Sodium Hypochorlite			3-16				0	X	X				CCD
Sodium Hydroxide			0.2-0.5		X		0						Merck 8
Sodium Chloride			3-12		X		0	0					Merck 8
Water			80-95										
Formula II													
Hydrogen Peroxide			20		X		0	0					CCD
Water			97										
Laundry Bleach Tablets													
Potassium Salt of Chlorinated Isocyanuric Acid			3-50										
Starch			50-97			X	X	X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C. (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Household Bleach, Liquid												
Formula I												
Sodium Hypochlorite		3-10				0	X	X				CCD
Sodium Chloride		3-8		X		0	0					Merck 8
Sodium Hydroxide		0.01-0.5		X		0						Merck 8
Water		85-95										
Formula II												
Hydrogen Peroxide		3		X		0	0					CCD
Water		97										
Household Bleach, Powder												
Chlorine Type												
Salts of DiChloro Dimethylhydantoin		2-20		X		0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C. (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Household Bleach, Powder (Cont'd.)												
Chlorine Type (Cont'd.)												
Dichlorisocyanuric Acid	2-20						X					CCD
Trichlorisocyanuric Acid	2-20						X					CCD
Sodium Tripolyphosphate	0-20		X		0	X			X	X		CCD Merck 8
Sodium Silicate Solution	0-5											
Alkyl Aryl Sodium Sulfonate	0-10											
Optical Brightener	0-0.5					0						CCD
Sodium Sulfate	0-90				0							Merck 8
Oxygen Type												
Sodium Perborate	5-40		X		0	X	0					CCD Merck 8
Potassium Persulfate	5-40				0	X						CCD

x - may be an effect
 o - no effect
 blank - no information

2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Household Bleach (Cont'd.)											
Oxygen Type (Cont'd.)											
Sodium Sesquicarbonate		0-70			0	X					CCD
Sodium Silicate		0-5									
Sodium Tripolyphosphate		0-40	X		0	X		X			CCD Merck 8
Alkyl Aryl Sodium Sulfonate		2-10									
Sodium Sulfate		50-70			0						Merck 8
Fluorescent Dye		0.2-0.4				X					CCD
Wood Bleach											
Formula I											
Sodium Silicate		2.5									
Caustic Soda (Sodium Hydroxide)		8	X		0						Merck 8
Water		to 100									

x - may be an effect
 o - no effect
 blank - no information

2819	INDUSTRIAL INORGANIC CHEMICALS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wood Bleach (Cont'd.)											
Formula II											
Hydrogen Peroxide	30-35		X		O	O					CCD
Water	65-70										
Formula III											
Sodium Hydrosulfite (Sodium Bisulfite)	10				O	X	X				CCD
Water	90										
Formula IV											
Oxalic Acid			X	X	O	O					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Cellophane Packaging and Tape											
Cellophane											
Coating											
Vinylidene Chloride						0					CCD
Polyethylene			0				0		X		CCD
Packaging for Produce, Bread, Meat, Drugs, Cosmetics, Prepared Foods, Cereal, Mixes, Candy, Gum, Nuts, Poultry											
Vinyl											CCD
Polyethylene			0				0		X		CCD
Polystyrene						X					CCD
Polypropylene						X					CCD

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cushioning (shoe soles, carpet underlay, padding), Packaging, Window Stripping, Toys, Furniture											
Foamed Plastics											
Polyurethane Foam		Gleason									
Diisocyanate											CCD
Polyol											
Aliphatic Amines											
Fluorocarbon					X						CCD
Chlorinated Hydrocarbon			X								Gleason
Organic Tin Compounds											

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Plastic, General		K-0									
Flame Retardants											
Phosphorous			X		X	X					Merck 8
Nitrogen			X		X		0				Merck 8
Boron					X	X					CCD
Antimony			X			X					Merck 8 Toxic Sub
Halogens											
Sulfur Compounds											
Chlorinated Paraffins						X					CCD
Diamyl Peroxide											
Tris-2,3-dibromo Propylphosphate						X		X			CCD
Chlorendic Acid					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Plastic, General (Cont'd.)											
Flame Retardants (Cont'd.)											
Polyols											
Antimony Trioxide			X		X						Merck 8
Tricresyl Phosphate			X		X			O	X		Merck 8
Chlorinated Polyethylene					X						CCD
Stabilizers											
Barium/Cadmium/Zinc Systems											
Salts of Lead											
Salts of Barium											
Salts of Cadmium											
Salts of Zinc											
Salts of Tin											

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Plastic, General (Cont'd.)											
Lubricants											
Barium Stearate					X	X					CCD
Calcium Stearate					X						Merck 8
Pigments											
Carbon Black					X	X					CCD
Phthalocyanine Blue						X					
Phthalocyanine Green						X					
Titanium Dioxide			X		X	X					Merck 8
Blowing Agents											
Azodicarbonamide			0		X	X					CCD

x - may be an effect
o - no effect
blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Plastic, General (Cont'd.)													
Plasticizer													
Camphor					X		X	O	X				Merck 8
Diallyl Phthalates								O			X		CCD
Aryl Phosphates										X			
Esters of Aliphatic Dicarboxylic Acids (see Esters)													
Reinforcing Agents													
alpha-Cellulose						X							Heukelekian
Asbestos					X								Merck 8
Silica					X		X	X					CCD Merck 8
Fiberglass													CCD

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Plastic, General (Cont'd.)												
Reinforcing Agents (Cont'd.)												
Graphite							X					CCD
Crystals												
Processing Aids												
Solvents												
Ultra Violet Absorbers		0.25										
Fiberglass and Resin Plastics			Gleason									
Resins												
Fiberglass												CCD
Hardeners (Catalysts)												
Methyl Ethyl Ketone Peroxide (see Ketones)		30-100										

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Fiberglass and Resin Plastics (Cont'd.)										
	Hardeners (Catalysts) (Cont'd.)										
	Cyclohexanone		X			X	X				CCD
	Benzoyl Peroxide	3-50			X	X	X				CCD
	Dialkylaniline	Trace-100									
	Toluene Sulfonic Acid			0	0	0					CCD Heukelekian
	2,2-diaminodiethylamine										
	Polyurethane Foams										
	Diisocyanate (e.g., Toluene 2,4-diisocyanate)		X			X	X				Merck 8
	Polyol										

x - may be an effect
 o - no effect
 blank - no information

2821	PLASTICS MATERIALS, SYNTHETIC RESINS, AND NON-VULCANIZED ELASTOMERS (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Polyurethane Foams (Cont'd.)												
Catalyst (e.g., Aliphatic Amines, Morpholines, Triethyl Diamine, Tetramethyl Butane Diamine)												
Morpholine				X	X		O	X				CCD Heukelekian
Blowing Agent												
Freon				X			X	X				CCD
Fluorocarbons						X						CCD
Catalyst Accelerator (frequently organic tin compounds)												

x - may be an effect
 o - no effect
 blank - no information

2841 113	MACHINE DISHWASHING COMPOUNDS: DRY (SOLID)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Detergents, Automatic Dishwasher			Gleason									
Household, Low Alkalinity												
Sodium Tripolyphosphate		45		X		O	X		X			CCD, Merck 8
Sodium Silicate, Hydrated		30-35										Merck 8
Trisodium Phosphate		10-20				O	X		X			Merck 8
Nonionic Surfactant		3										
Sodium Hypochlorite		1				O	X	X				CCD
Household, High Alkalinity												
Sodium Metasilicate, Anhydrous		20-40				O						Merck 8
Sodium Tripolyphosphate		20-50										
Sodium Carbonate		20-50										
Surfactant (Nonionic or Anionic)		0.5-4										
Potassium Dichloro-s-triazinetriene												

x - may be an effect
 o - no effect
 blank - no information

2841 113	MACHINE DISHWASHING COMPOUNDS: DRY (SOLID)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Detergents, Automatic Dishwasher (Cont'd)												
Commercial, High Alkalinity												
may contain:												
Alkylaryl Sodium Sulfonate												
Chlorinated (Trisodium Phosphate) (see Sodium Alkylaryl Sulfonate)						0	X					Merck 8
Polyalkalene Glycol												
Sodium Sulfate						0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Metal Cleaners			Gleason									
Alkaline Type:												
Caustic Soda or } Potash		0-50		X		0						Merck 8
Trisodium Phosphate		25-75				0	X		X			Merck 8
Sodium Metasilicate		10-75				0						Merck 8
Soap or Detergent (e.g., Alkyl Aryl Sodium Sulfonate)		5-20										
Solvent Type:												
Formula I												
Perchloroethylene		1-100		X		0	0	X				Merck 8
Trichloroethylene		1-100		X		X		X				Merck 8
1,1,1-trichloroethane		1-100		X		X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Formula II												
Kerosene		5-80										CCD
Potassium Soap		5-25	X		X							CCD
Oleic Acid				X	X							Merck 8
Glycol Ether		5-20										
Surfactant		5-20										
Acid Type: (see Acid)												
Formula I												
Hydrochloric Acid or one or more of the following:		5-25	X				X					Hackh's, Merck 8
Sulfuric Acid		10-20	X				0	0				Merck 8
Chromic Acid		5-20	X			0	X					CCD, Toxic Sub
Phosphoric Acid		10-25	X			0	0	0				CCD

x - may be an effect
o - no effect
blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Citric Acid			10-25		X	X	0	X	0				CCD Toxic Sub Heukelekian
Surfactant			5-10										
may contain:													
Cedarwood Oil					X			X	X				CCD
Kerosene						X							CCD Heukelekian
Sodium Carbonate													
Tripolyphosphates					X		0	X		X			CCD Merck 8
Formula II													
Phosphoric Acid			40-80		X		0	0	0				CCD
Water			40-80										
Surfactant			0-5										

x - may be an effect
 o - no effect
 blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula III												
Citric Acid		5-50		X	X	0	X	0				CCD, Toxic Sub, Heukelekian
Ammonium Citrate		0-20				0	X					CCD
Water		0-50										
Surfactant		0-5										
Steam (Iron) Cleaners												
Caustic Soda		15-25		X		0						Merck 8
Anionic Detergents												
Trisodium Phosphate		75-85				0	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 115		OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Sewer, Cesspool, Septic Tank Cleaners												
Formula I												
Sodium Hydroxide		90-100		X	0							Merck 8
Potassium Hydroxide				X	0	X						CCD
Aluminum Particles (Metal)				X		X						Merck 8
Sodium Carbonate		2-5										
Talc		2-5					X					CCD
Trichlorobenzene		1				X	X					CCD
Kerosene		1			X							CCD Heukelekian
Urea		5				0		X				Merck 8
Formula II												
Sodium Bixulfate		80-100				0						Merck 8
Sodium Chloride		10-20		X		0	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Sewer, Cesspool, Septic Tank Cleaners (Cont'd)												
Formula II (Cont'd)												
Enzymes												CCD
Dried Yeast							X					CCD
Peat Moss							X					CCD
Copper Sulfate				X	0	X						CCD
												Toxic Sub
Sugar				X	0	X	0					CCD
												Heukelekian
Aluminum Sulfate				X	0	X						CCD
												Merck 8
Lime												Toxic Sub
Formula III												
Cerelese Dextrose			80			X						CCD

x - may be an effect
 o - no effect
 blank - no information

2841 115	OTHER ALKALINE DETERGENTS, HOUSEHOLD: LIQUID (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sewer, Cesspool, Septic Tank Cleaners (Cont'd)											
Formula III (Cont'd)											
Enzymes	15										CCD
Yeast	5					X					CCD

x - may be an effect
 o - no effect
 blank - no information

2841 171 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT, AND/OR INORGANIC FILLERS: DAIRY AND FOOD PROCESSING CLEANERS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dairy Disinfectants		Gleason									
Iodophors			X		O						Gleason Merck 8
Calcium Hypochlorite	3-35					X					Hackh's
Sodium Chloride	0-64		O		O	X					Merck 8
Phosphates	1-91							X			
may contain:											
Alkyl Sodium Sulfate (see Detergents, sny. Anionic)	0.04										CCD
Potassium Permanganate	0.01				O	X	O				CCD
Dairy Cleaners											
Alkaline											
Quaternary Ammonium Compound	10										CCD
Isooctyl Phenylpolyethoxy Ethanol	5-10										

x - may be an effect
 o - no effect
 blank - no information

2841 171 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT, AND/OR INORGANIC FILLERS: DAIRY AND FOOD PROCESSING CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Hydroxide	30-35		X		0						Merck 8
Sodium Tripolyphosphate	45-50		X		0	X		X			Merck 8 CCD
Sodium Bicarbonate	0-15		X		0	X					Merck 8
Acid											
Quaternary Ammonium Compound	15-20										CCD
Phosphoric Acid	30		X		0	0	0				CCD
Reso P-150	5										
Water	50										
may contain:											
Iodine			X		X	X	X				Merck 8
Sanitizers											
Quaternary Ammonium Compounds	10-20										
Nonionic Surfactants	5-10										

x - may be an effect
 o - no effect
 blank - no information

2841 171 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT, AND/OR INORGANIC FILLERS: DAIRY AND FOOD PROCESSING CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Water may contain: Sodium Carbonate Sodium Tripolyphosphate	to 100%									
		X		O	X		X			Merck 8 CCD

x - may be an effect
 o - no effect
 blank - no information

2841 175 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Stainless Steel Cleaners (also see Metal Cleaners)		Gleason									
Sulfamic Acid	5-10		X		O	X					Hackh's Merck 8
Citric Acid			X		O	X	O				CCD Toxic Sub Heukelekian
Tartaric Acid			X		O	X	O				CCD
Sodium Chloride	5-10		X		O	X					Merck 8
Anionic Synthetic Surfactant	1-3										
Corrosion Inhibitor, e.g., Sodium Acid Phosphates (see Sodium Phosphate, Nionobasic)					O	X	O	X			CCD Merck 8
Borax, etc.			X		O	X					CCD Toxic Sub
Siliceous Abrasive	to 100										CCD

x - may be an effect
 o - no effect
 blank - no information

2841 175		ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Firearm													
Denatured Ethanol (e.g., Ethyl Alcohol)		30				X	0	0	X				CCD Heukelekian
Kerosene		30				X							Heukelekian
Saponifiable Animal Oil		25											
Aqua Ammonia (Ammonium Hydroxide)		2			X			0	X				CCD Merck 8
Oil Mirbane (Nitrobenzene)		2			X	0	0	X					CCD Heukelekian
Essential Oils		11			X		0	X	X				CCD, K-0
may contain:													
Emulsifiers													CCD
Lubricating Oil					X								Gleason
Copper Cleaners (see also Metal Cleaners)													
Sulfamic Acid					X		0	X					Hackh's Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 175 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Citric Acid	5-10		X		0	X	0				CCD Toxic Sub
Tartaric Acid				X	0	X	0				CCD Heukelekian
Sodium Chloride	5-10		0		0	X					Merck 8
Anionic Synthetic Surfactant	1-3										
Siliceous Abrasive	to 100										CCD
may contain:											
Fatty Acid Amide											CCD
Coffee Pot Cleaners											
Tripolyphosphate (see Sodium Tripolyphosphate as example)	65		X		0	X		X			CCD Merck 8
Sodium Metasilicate	30				0						Merck 8
Alkyl Aryl Sodium Sulfonate	5										

x - may be an effect
 o - no effect
 blank - no information

2841 175 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Ethoxylated Tridecyl Alcohol	0.05										
Sodium Bicarbonate			X		O	X					Merck 8
Chrome Cleaners											
Formula I											
Abrasive											CCD
Ammonium Hydroxide (see Alkali)			X			O	X				CCD Merck 8
Ammonium Oxalate			X		O	O	O				Merck 8
Formula II											
Abrasive											CCD
Alcohol, Ethyl				X	O	O	X				CCD Heukelekian
Naphtha											
Petroleum Oil					O						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 175	ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water													
Formula III													
Oxalic Acid					X	X	O	O					CCD Heukelekian
Hydrochloric Acid (see Acid)					X			X					Hackh's Merck 8
may contain:													
Emulsifiers													CCD
Aluminum Cleaners													
Formula I													
Sodium Metasilicate			45				O						Merck 8
Sodium Tripolyphosphate			30				O	X		X			Merck 8
Sodium Bicarbonate			20-25		X		O	X					Merck 8
Sodium Lignosulfate			3					X					CCD

x - may be an effect
 o - no effect
 blank - no information

2841 175 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Nonionic Surfactants (High in Ethylene Dioxide)	1										
Formula II											
Oxalic Acid Crystals	6		X		O	O					CCD
Sodium Fluoride	4		X		O	X					CCD Merck 8
Soap	4										CCD
Fledspar	85										
Wetting Agent	1										
may contain:											
Caustic Soda			X		O						Merck 3
Citric Acid			X	X	O	X	O				CCD Toxic Sub Heukelekian
Ethylenediaminetetraacetic Acid (EDTA)			X	X	X	O					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2841 175 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT AND/OR INORGANIC FILLERS: METAL CLEANERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Phosphoric Acid			X		0	0	0				CCD
Stearic Acid				X	X	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2841 179 ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT, AND/OR INORGANIC FILLERS; ALL OTHER											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Boiler Cleaners		Gleason									
Liquid (see Acid)											
Hydrochloric Acid			X			X					Hackh's Merck 8
Phosphoric Acid			X		O	O	O				CCD
Oxalic Acid			X	X	O	O					Merck 8 CCD Heukelekian
Sulfamic Acid			X		O	X					Hackh's Merck 8
Citric Acid			X	X	O	X	O				CCD Toxic Sub Heukelekian
Ammonium Fluoride			X		O	X					CCD Toxic Sub
Sodium Fluoride			X		O	X					CCD, Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 179	ACID-TYPE CLEANERS CONTAINING AN ACID AND/OR WETTING AGENT, AND/OR INORGANIC FILLERS: ALL OTHER (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Powder												
Asbestine		50										Hackh's
Sodium Carbonate		25										
Trisodium Phosphate		15				0	X		X			Merck 8
Potassium Dichromate		5		X		0	X					CCD
Quebracho		5										CCD

x - may be an effect
 o - no effect
 blank - no information

2841 3	SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Detergents, Granulated and Tablet			Gleason								
Alkylbenzenesulfonates		0-35		0							CCD Gleason
Alkylphenyl Polyethoxy-ethanol or Polyalkylene Glycol		0-10									
Sodium Tripolyphosphate or		6-60			0	X					Merck 8
Sodium Pyrophosphate											
Sodium Sulfate		10-60			0			X			Merck 8
Sodium Chloride		0-10		X	0	X					Merck 8
Sodium Silicate		0-10									Merck 8
Water		2-15									

x - may be an effect
 o - no effect
 blank - no information

2841 3	SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
may contain:											
Aryl Alkyl Sodium Sulfonate											
Fatty Acid Alkanol Amide											CCD
Mercaptobenzene Thiazole (corrosion inhibitor)				0	X	X	X				CCD
Optical Brightener						X					CCD
Soap											
Sodium Carbonate											
Sodium Perborate			X		0	X	0				CCD, Merck 8
Sodium Toluene Sulfonate					0						CCD
Sodium Xylene Sulfonate											
3,4,4'-trichlorocarbanilide			X			X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 3	SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
General-purpose Granular Detergent												
Sodium Alkylbenzenesulfonate		20-30				0	X					Merck 8
Sodium Tripolyphosphate		40-50							X			
Sodium Sulfate		10-60				0						Merck 8
Sodium Silicate		5										Merck 8
Fatty Acid Alkanol Amide		5										CCD
Water		5-10										
may contain:												
Alkyl Aryl Sodium Sulfonate		3-5										
Alkylphenyl Polyethoxyethanol		10										
Sodium Carbonate		20-30										
Trisodium Phosphate		50-60				0	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 3		SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Light Duty Granulated (Hand Dishwashing)													
Alkyl Aryl Sodium Sulfonate		30-40											
Filler (Sodium Sulfate)		60-70				0						Merck 8	
Lauric Mono Ethanol Amide		2											
Water													
Liquid Soap													
Soap (usually potassium)		10-40										CCD	
Glycerine		0-5		X	X	0	X	0				CCD, Merck 8 Heukelekian	
Ethyl Alcohol or		5-20			X	0	0	X				CCD Heukelekian	
Isopropyl Alcohol					X	0	0					CCD Heukelekian	
Water		50-80											

x - may be an effect

o - no effect

blank - no information

2841 3		SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Light Duty Soaps (Flakes, Granules)													
Soap		80-90											CCD
Sodium Silicate		0-10											Merck 8
Sodium Carbonate or		0-10											CCD
Potassium Carbonate }													CCD
Water		5-15											
General Puprose Soaps (Granules,Flakes)													
Soap		20-60											
Sodium Silicate		0-20											Merck 8
Sodium Carbonate		0-10											CCD
Sodium Phosphate		0-10											

x - may be an effect
 o - no effect
 blank - no information

2841 3 SOAPS, EXCEPT SPECIALTY CLEANERS, HOUSEHOLD (Cont'd)											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Borax or	0-20		X		0	X		X			CCD, Hackh's
Sodium Perborate }			X		0	X	0				CCD, Merck 8
Water	5-25										
Baby Preparations											
Baby Soap:											
Sodium Soaps											
Coconut Oil						X	X		X		CCD
Palm Oil						X			X		CCD

x - may be an effect
 o - no effect
 blank - no information

2841 311	HOUSEHOLD SOAPS, BARS (EXCEPT MEDICAL AND MEDICATED MECHANICS, HAND SOAPS AND SHAVING SOAPS): TOILET											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Toilet Bar Soaps												
Formula I												
Soap (Usually Sodium or Mixture of Sodium and Potassium)	80-90											
Perfume	0-3		X		X	X	X				CCD K-0	
Water	10-15											
may contain:												
Antibacterial Agents:												
(Hexachlorophene or	}				X	X	0				CCD Merck 8	
Trichlorocarbanilide or						X					Merck 8	
Brominated Salicylanilide)												
			X		0		0				Merck 8	
Borax			X		0	X					CCD Toxic Sub	

x - may be an effect
 o - no effect
 blank - no information

2841 311	HOUSEHOLD SOAPS, BARS (EXCEPT MEDICAL AND MEDICATED MECHANICS, HAND SOAPS AND SHAVING SOAPS): TOILET (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Cold Cream								X	X		X		Hackh's
Fatty Acid													CCD
Glycerine					X	X	O	X	O				CCD Merck 8 Heukelekian
Sodium Silicate													Merck 8
Titanium Dioxide							X	X					Merck 8
Formula II													
Soap			0-65										
Anionic Surfactants			20-50										
Fatty Acids			0-35										CCD
Sodium Sulfate			0-10				O						Merck 8
Water			5-10										

x - may be an effect
 o - no effect
 blank - no information

2841 311	HOUSEHOLD SOAPS, BARS (EXCEPT MEDICAL AND MEDICATED MECHANICS, HAND SOAPS AND SHAVING SOAPS): TOILET (Cont'd)	TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	may contain: See Formula I												

x - may be an effect
 o - no effect
 blank - no information

2841 5	SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Detergents, Liquid		Gleason									
Anionic Surfactant	5-40										
Nonionic Surfactant	0-8										
Soap	0-12										
Sodium Toluenesulfonate	0-10				0						CCD
Sodium Xylenesulfonate											
Potassium Toluenesulfonate											
Potassium Xylenesulfonate											
Potassium Pyrophosphate	0-25				0	0		X			CCD
Fatty Acid, Alkanolamine Amide	1-8										CCD
Denatured Ethyl Alcohol	0-20			X	0	0	X				CCD Heukelekian
Isopropyl Alcohol	0-12			X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2841 5	SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Sodium Silicate		0-5										Merck 8	
Ammonia		0-5		X		O	O	X				Hackh's CCD Merck 8 Toxic Sub	
Water		40-85											
Pine Oil		0-38					X			X		CCD	
Propylene Glycol		0-10		X								Merck 8	
Naptha		0-30		X		X	O	X		X		CCD Merck 8	
may contain:													
Orthobenzylparachlorophenol				X								Toxic Sub	
Chloroorthophenylphenol							X	X				CCD	

x - may be an effect
 o - no effect
 blank - no information

2841 5	SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Diethanolamine			X			0	X				Hackh's Merck 8
Dyes						X					CCD
Ethylene Glycol			X	X							Merck 8 Heukelekian
Optical Brightener						0					CCD
Perfumes			X		X	X	X				CCD, K-O
Petroleum Solvents (Ether)			X	X			X				Merck 8 Heukelekian
Sodium Carboxymethyl Cellulose-Grace			0	X	0	0	0				CCD Merck 8 Heukelekian
Sodium Nitrate					0	0	0				CCD
Sodium Sulfate					0						Merck 8
Ammonium Sulfate					0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2841 5	SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Salts of (Ethylenediamine Tetraacetic Acid)			X	X	X	0					CCD Heukelekian
Sodium Tripolyphosphate					0	X		X			Merck 8
Trisodium Phosphate					0	X		X			Merck 8
Dishwashing Detergent											
Anionic Surfactant	30										
Fatty Acid Alkanol Amide	10										CCD
Denatured Ethanol	20			X	0	0	X				CCD Heukelekian
Water	40										
Hard-Surface Detergent-Cleaner											
Formula I											
Potassium Pyrophosphate	10				0	X		X			CCD
Potassium Toluene Sulfonate	10										

x - may be an effect
 o - no effect
 blank - no information

2841 5 SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Ammonia	to 5		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Nonionic Surfactant	5										
Water	75										
Formula II											
Naphtha	30										
Soap	8										
Pine Oil	8				X				X		Merck 8
Ammonia	to 5		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Nonionic Surfactant	2										
Sodium Pyrophosphate	2				0			X			

x - may be an effect
 o - no effect
 blank - no information

2841 5	SYNTHETIC ORGANIC DETERGENTS, HOUSEHOLD (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Water		50										
Laundry Detergent												
Anionic Surfactant		10										
Potassium Pyrophosphate		20			0	0			X			CCD
Sodium Xylenesulfonate		10										
Fatty Acid Alkanol Amide		5										CCD
Sodium Silicate		3										Merck 8
Water		52										

x - may be an effect
 o - no effect
 blank - no information

2841 553 SCOURING CLEANSERS WITH OR WITHOUT ABRASIVES		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Abrasive Cleaner		Gleason									
Silica Soap or	70-90		X		X	X					CCD, Merck 8
Pumice Soap or					X						CCD
Fillers (Clay)											CCD
Trisodium Phosphate or	5-25				0	X					Merck 8
Tripolyphosphate or											
Pyrophosphates					0			X			Merck 8
Sodium Sulfate	0-5				0						Merck 8
Alkyl Aryl Sodium Sulfonates	2-4										
Trichloroisocyanuric Acid	0.3-5					X					CCD
Water	0.5-10										
may contain:											
Caustic Soda (Sodium Hydroxide)			X		0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2841 553	SCOURING CLEANSERS WITH OR WITHOUT ABRASIVES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chlorinated Trisodium Phosphate					0	X		X			CCD
Citric Acid			X	X	0	X	0				CCD Toxic Sub Heukelekian
Kerosene				X							Heukelekian
Potassium Persulfate					0	X					CCD
Sodium Carbonate											
Sodium Hypochlorite					0	X	X				CCD
Sodium Perborate (In which Case Toxicity Rises)			X		0	X	0				CCD Merck 8
Sodium Perchlorate					0	X					CCD
Sodium Stearate				X	0	X	X				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 135 REPELLENTS AND ATTRACTANTS (FOR INSECTS, BIRDS, FISH, AND OTHER ANIMALS)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Insect Repellent Sticks		Gleason									
2-phenylcyclohexanol					0	X					CCD
2-cyclohexylcyclohexanol					X	0					CCD
Sodium Stearate				X	0	X	X				CCD, Merck 8, Heukelekian
Denatured Alcohol				X	0	0	X				CCD, Heukelekian
Perfume			X		X	X	X				CCD, K-0
Water											
may contain:											
Ethylhexanediol			X		X	X	0				CCD
Propylene Glycol			X								Merck 8
Propyl-parahydroxybenzoate					X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Degreasers (see also Cleaners)			Gleason										
Household Liquid:													
Formula I													
Combinations of anionic and nonionic synthetic surfactants		15-20											
Example:													
Alkyl Phenol Polyethylene Glycol Ether		20										Gleason	
Alkyl Aryl Sodium Sulfonate													
Water Softener													
Color		q.s. to 100					X						
Perfume				X		X	X	X				CCD, K-0	

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water														
Formula II														
Water Solutions of Coconut Fatty Acids in Combination With the Above Mentioned Surfactants														CCD
Formula III														
Terpene Distillates (see Terpenes)														
Petroleum Distillates						X		X	X	X		X		CCD, Merck 8
Powder														
Carbon Tetrachloride						X	0	X	0	X				CCD, Toxic Sub Heukelekian
Kaolin								X	X	X				CCD
Naphtha														CCD

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Vapor												
Perchloroethylene		100		X		X	0	X				Merck 8
Carbon Tetrachloride		100		X	0	X	0	X				CCD, ToxicSub Heukelekian
Trichloroethylene		100		X		X		X				Merck 8
may contain:												
Methyl Polysiloxane												
Tall Oil Fatty Acids												

x - may be an effect
 o - no effect
 blank - no information

2842 3 SPECIALTY CLEANING AND SANITATIONS PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Diaper Cleaners											
Formula I											
Quaternary Ammonium Compounds	0-20										
Sodium Metasilicate	0-5				0						Merck 8
Trisodium Phosphate	0-5							X			Merck 8
Triethanolamine Oleate	0-1										
Sodium Sesquicarbonate					0	X					CCD
Sodium Perborate			X		0	X	0				CCD, Merck 8
Sodium Tripolyphosphate			X		0	X		X			CCD, Merck 8
Anionic Detergents											
Formula II											
Paradichlorobenzene			X		X		X				Merck 8
Essential Oils			X		X	X	X				CCD, K-0

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Deodorizer/Cleaner													
Formula I													
Pine Oil		60 min.							X		X		CCD
Anhydrous (See Soap)		30 max.											
Water		10											
Formula II													
Quaternary Ammonium Compound		2.5-10											
Nonionic Surfactant		0.6-2.5											
Phosphates		2-3								X			
Ethylenediamine Tetraacetic Acid		0.5-1			X	X	X	0					CCD Heukelekian
Metal Surface													
Sodium Nitrate							0	0	0	X			CCD

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.								
Deodorizer/Cleaner (Cont'd)													
Metal Surface (Cont'd)													
Synthetic Phenols				3.4-4 max.		X		0	X				Merck 8 Toxic Sub
Isopropyl Alcohol				2-3			X	0	0				CCD Heukelekian
Anhydrous Soap				5-15									
Ethylenediamine Tetraacetic Acid				0.5-1				X	0				CCD
Water to make				100									
Trace amounts of color and fragrance													
may contain:													
Magnesium Sulfate								0	X			X	Hackh's

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Porcelain, Marble, Tile and Enamel Cleaners											
Formula I											
Abrasive	88										CCD
Sodium Tripolyphosphate	5		X		O	X		X			CCD, Merck 8
Sodium Alkylaryl Sulfonates	5										
Trisodium Phosphate	2				O	X		X			Merck 8
Formula II											
Stoddard Solvent	0-31						X				CCD
Morpholine	0-2		X	X		O	X				CCD Heukelekian
Trisodium Phosphate	0-3				O	X		X			Merck 8
Soap	0-3										
Wetting Agent	0-1										

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Porcelian, Marble, Tile and Enamel Cleaners (Cont'd)													
Formula II (Cont'd)													
Silica	0-65			X		X	X						CCD, Merck 8
Water to make	100												
Jewelry Cleaners													
Animal (Fatty Acid)	5-15												
Aqua Ammonia (Ammonium Hydroxide)	5-25			X			0	X					CCD, Merck 8
Isopropanol (Isopropyl Alcohol)	10-15				X	0	0	0					CCD Heukelekian
Dye	traces						X						CCD
Perfume	traces			X		X	X	X					CCD, K-0
Water to make	100												

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Jewelry Cleaners (Cont'd)												
Jewelry Cleaners (Cont'd)												
may contain:												
Cyanide (if present, toxicity rating 5)												Hackh's
Thiourea						O	X					CCD
Sulfuric Acid				X	O	O	O		X			Merck 8
Polyethylene Glycose												
Teflon Cleaner												
Sodium Perborate				X	O	X	O					CCD, Merck 8
Sodium Metasilicate					O							Merck 8
Inorganic Salts												
Synthetic Organic Detergents												

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Shaver Cleaner													
1,1,1-trichlorethane		95			X		X						Merck 8
Petroleum Lubricant							X	X			X		Merck 8
Perfume		trace			X		X	X	X				CCD, K-0
Dye		trace						X					CCD
Lens Cleaners													
Formula I													
Surfactants		4											
Phosphate Salt		4								X			
Water		96											
Formula II													
Isopropyl Alcohol		12				X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Lens Cleaners (Cont'd)											
Formula II (Cont'd)											
Wetting Agent	2-4										
Water	84-86										
may contain:											
Silicones					X						CCD
Plant Cleaner											
Waxes					X	X					CCD
Resins					X	X					CCD
Emulsifiers											CCD
Water											

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Furnace and Fireplace (soot destroyers)													
Formula I													
Charcoal							X					CCD	
Potassium Nitrate				X		0	X		X			Merck 8	
Formula II													
Sodium Chloride		74		X		0	X					Merck 8	
Ammonium Chloride		10		X		0	X	0				CCD Merck 8 Toxic Sub	
Copper Sulfate		3.5		X		0	X					CCD Toxic Sub	
Wood Flour		10					X					CCD	
Red (iron oxide)		1.5					X					CCD	
Magnesium Carbonate		1				X	X				0	Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2842 3	SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Furnace and Fireplace (soot destroyers) (Cont'd)												
Liquid												
Kerosene	65				X							CCD Heukelekian
Copper 6% Liquid Linoresinate	14											
Zinc 8% Liquid Linoresinate	2											
Ortho Dichlorobenzene	14			X		X						Merck 8
Morpholine	3			X	X		0	X				CCD Heukelekian
Petronate	0.1											CCD
Butyl Alcohol	1			X	X	0		X				Merck 8 Heukelekian Toxic Sub
Flake Naphthalene	0.6			X	0	X	X	X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 3		SPECIALTY CLEANING AND SANITATION PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Furnace and Fireplace (soot destroyers) (Cont'd)													
Liquid (Cont'd)													
Camphor		0.05			X		X		X				Merck 8 Toxic Sub
may contain:													
Copper Chloride					X		X	X					CCD Merck 8 Toxic Sub
Plastic Polishes													
Paraformaldehyde		100			X		0	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 311	GLASS WINDOW CLEANING PREPARATIONS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Window Waxes (see Cleaners)				Gleason								
Silica Abrasive					X	X	X					Merck 8 CCD
Amine Soaps												
Waxes						X	X					CCD
Petroleum Distillate												Gleason
Ammonium Hydroxide			trace		X		0	X				Merck 8 CCD
Windshield Washer Solvents												
Formula I												
Ethylene Glycol			10-45		X	X						Merck 8 Heukelekian
Isopropyl Alcohol			50-85			X	0	0				CCD Heukelekian
Potassium Phosphate			0-1				0	X		X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 311		GLASS WINDOW CLEANING PREPARATIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Water		4-20											
Dye		trace						X					CCD
Formula II													
Propylene Glycol		0-10			X		0						Merck 8
Ethylene Glycol		10-15			X	X							Merck 8 Heukelekian
Isopropyl Alcohol		50-85				X	0	0					CCD Heukelekian
Formula III													
Dye		0-2						X					CCD
Surfactant }													
Isopropyl Alcohol		30-80				X	0	0					CCD Heukelekian
Water		5-50											
Surfactant		0-5											

x - may be an effect
 o - no effect
 blank - no information

2842 311 GLASS WINDOW CLEANING PREPARATIONS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dye	trace					X					CCD
Formula IV											
Methyl Alcohol	5-25		X	X	O	O	X				CCD Merck 8 Heukelekian
Isopropyl Alcohol	25-50			X	O	O					CCD Heukelekian
Water	0-30										
Surfactant }	small amounts										
Dye }						X					CCD
Glass (Window Cleaners)											
Formula I											
Butyl Cellosolve	3-5				O	O	X				Merck 8
Ethyl Alcohol	3-5			X	O	O	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 311	GLASS WINDOW CLEANING PREPARATIONS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wetting Agent	0.5-1										
Isopropanol (Isopropyl Alcohol)	0-15			X	O	O					CCD Heukelekian
Dyes	trace					X					CCD
Silicone	trace				X						CCD
Water	to 100										
may contain:											
Alkali (see Sodium Hydroxide as e.g.)			X		O						Merck 8
Ammonia			X		O	O	X				CCD Hackh's Merck 8 Toxic Sub
Bentonite					X	X					CCD Merck 8
Celite						X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 411 GLASS WINDOW CLEANING PREPARATIONS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Essential Oils		X		X	X	X				CCD K-O
Hydrated Lime		X		X	X					Merck 8
Naphthas										
Nonyl Phenoly Polyethoxy Ethanol-Iodine Complex										
Organic Solvents										
Phosphoric Acid		X		O	O	O				CCD
Polyethoxy Polypropoxy Poly- ethoxyethanol-Iodine Complex		X		O						Merck 8 Gleason
Sodium Polyphosphate							X			CCD
Turkey Red Oil										
Waxes (Carnauba, Japan)				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 311	GLASS WINDOW CLEANING PREPARATIONS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II											
Isopropyl Alcohol	6-25			X	0	0					CCD Heukelekian
Glycol Ether	10-11										
Ethylene Glycol	1		X	X							Merck 8 Heukelekian
Surfactant (Usually an Anionic but Occasionally a Nonionic)											
Water	60-85										
Formula III											
If a spray, a small amount of Freon may contain:	ca. 6										

x - may be an effect
 o - no effect
 blank - no information

2842 311 G ASS WINDOW CLEANING PREPARATIONS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dyes	small amounts		X		X	X	X				CCD
Perfumes						X					CCD
Phosphates											K-0
Fillers								X			
Window Waxes						O					CCD Merck 8
Silica Abrasive											
Amine Soaps											
Waxes											
Petroleum Solvent											
Ammonium Hydroxide	trace		X			O	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 321	OVEN CLEANERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Stove and Oven Cleaner		Gleason									
Formula I											
Potassium Hydroxide }	max 10		X								Merck 8
Sodium Hydroxide }			X		O						
Starch, Glue, etc.	5-15			X	X	X					CCD Heukelekian
Nonionic Synthetic Surfactant	1-5										
may contain:											
N-Acetyl Ethanolamine	0-2				O	X					CCD
Butyl Cellosolve (see Ethylene Glycol Monobutyl Ether)					O	O	X				CCD
Cellulose	0-2			X	X	X					Merck 8 Heukelekian
Glycols						O					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2842 321 OVEN CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emulsifying Agents											CCD
Methyl Chloride			X		O	O					Merck 8
Oleic Acid			X		X	X					Merck 8
Petroleum Distillates	0-25										Gleason
Pine Oil							X		X		CCD
Silica			X		X	X					Merck 8
Sodium Orthosilicate	10				O	X					CCD
Sodium Xylene Sulfonate	0-0.5										
Whiting	0-2		X		X	X	O				Merck 8
Formula II											
Sodium Hydroxide Base			X		O						Merck 8
Formula III											
Sodium Orthosilicate	11.0		X			X					CCD severe burns

x - may be an effect
 o - no effect
 blank - no information

2842 321	OVEN CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Whiting (Chalk)			2.0		X	X	X	0				Merck 8
Cellulose			2.5		X	X	X					Merck 8 Heukelekian
N-Acetyl Ethanolamine			2.0			0	X					CCD
Butyl Cellosolve			2.0			0	0	X				CCD
Sodium Xylene Sulfonate			0.5									Hackh's Merck 8
Water			q.s.									

x - may be an effect
 o - no effect
 blank - no information

2842 331	TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Drain and Pipe			Gleason									
Liquid												
Hydrochloric Acid (see Acid)				X			X					Hackh's, Merck 8
Sulfuric Acid				X			0	0		X		Merck 8
1,3-dichloro-5,5-dimethylhydantoin		3-5		X		X						Merck 8
may contain:												
Enzymes												
Saprophytic, Nonpathogenic												
Bacteria												
Powder												
Sodium Hydroxide or				X		0						Merck 8
Potassium Hydroxide (see Alkali)		90-100		X		0	X					CCD
Sodium Nitrate		0-30				0	0	0	X			CCD

x - may be an effect
 o - no effect
 blank - no information

2842 331	TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Toilet Bowl Cleaners (Acid Cleaners)											
Toilet Bowl											
Solid											
Sodium Acid Sulfate		70-100			0						Merck 8
Octyl Phenoxy Polyethoxy Ethanol or					0	X	X				CCD
Nonyl Phenoxy Polyethoxy Ethanol											
Sodium Sulfate		0-3			0						Merck 8
Sodium Acid Oxalate		0-2									
1,3-dichloro-5,5-dimethyl Hydantoin		0-95	X		X						Merck 8
Sodium Chloride		0-100	X		0	X					Merck 8
Sodium Carbonate		0-10									

x - may be an effect
 o - no effect
 blank - no information

2842 331		TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Perfume (Pine Oil, Methyl Salicylate,etc.)		0-1		X		X	X	X		X		CCD, K-O	
may contain:													
Alkyl Aryl Sodium Sulfonate (see Sodium Alkyl Aryl Sulfonate)		0-2											
Liquid													
Hydrochloric Acid		8-30		X			X					Hackh's Merck 8	
Octyl Phenoxy Polyethoxy Ethanol or						O	X	X				CCD	
Nonyl Phenoxy Polyethoxy Ethanol													
Quaternary Ammonium Compounds		0-3											
Kerosene		0-3			X							CCD Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2842 331		TOILET BOWL CLEANERS AND DRAIN PIPE SOLVENTS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
(Chlorinated Phenols [e.g.,													
Orthobenzylparachloro-phenol] or				X								Toxic Sub	
1,3-dichloro-5,5-dimethyl Hydantoin)		0-1		X		O						Merck 8	
Perfume				X		X	X	X		X		CCD K-O	
Dye		0-0.5					X					CCD	
may contain:													
Alkyl Aryl Sodium Sul- fonate (see Sodium Alkyl Aryl Sulfonate)													
Orthodichlorobenzene or				X		X						Merck 8	
Paradichlorobenzene				X		X		X				Merck 8	
Hepta Decyl Hydroxy- ethyl Imidazoline													

x - may be an effect
 o - no effect
 blank - no information

2842 331 TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Iodine		X		X	X	X				Merck 8
Soda Ash				O	X					CCD
Sodium Metasilicate				O						Merck 8
Sodium Nitrate				O	O	O				CCD
Sodium Tripolyphosphate		X		O	X		X			CCD Merck 8
Turbifying Agents, e.g.,										
Polystyrene Resin					X					CCD
Polyacrylate Resin					O					CCD
Tetra Sodium Pyro-phosphate				O			X			Merck 8
2,2'Thiobis (4,6 dichlorophenol)										Merck 8
Tris (Hydroxymethyl) Nitromethane	0.1-0.5	X		O						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 331		TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Versene				X	X	X	0						CCD Heukelekian
Zinc Chloride				X		0	X	0					Merck 8
Drain and Pipe Powder													
Sodium Hydroxide (see Alkali)		90-100	}	X		0							Merck 8
Potassium Hydroxide (see Alkali)				X		0	X						
Sodium Nitrate		0-30				0	0	0	X				CCD
Aluminum Particles (Metal)		2-5		X			X						Merck 8
Sodium Chloride		0-10		X		0	X						Merck 8
Sodium Carbonate		2-5					X						CCD
Talc													
may contain:													
Trichlorobenzene		1				X	X						CCD

x - may be an effect
 o - no effect
 blank - no information

2842 331	TOILET BOWL CLEANER AND DRAIN PIPE SOLVENTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Kerosene			1		X							CCD Heukelekian
Urea			5			O		X				Merck 8
Sodium Chloride			10-20		X	O	X					Merck 8
Pine Oil			0.25					X		X		CCD
Methyl Salicylate			0.25		X	X	X	X				CCD Merck 8
may contain:												
Corrosion Inhibitor (Thiourea)			0.1			O	X					CCD
Nonionic Surfactant			0.5									

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Spray Type Disinfectants			Gleason									
Formula I												
Isopropanol		up to 30			X	0	0					CCD Heukelekian
4'5-dibromsalicylanilide		up to 0.45										
3,4'5-tribromsalicylanilide		up to 0.45				X						Merck 8
Other Polybrominated Salicylanilides		up to .1										
Inert Ingredients, About 70% (e.g., propellants such as Freon 11 and 12)				X			X	X				CCD
Formula II												
Vancide B (Sodium Bithionolate)		0.5				0						CCD
Ethanol		25			X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 332 DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Water	54.5										
Propellant 12	4				X	0	0				CCD
Propellant 114	16				X	0	0				CCD
Swimming Pool Sanitizer											
Formula I											
Sodium Hypochlorite					0	X	X				CCD
Other Chlorinated Compounds (see Carbon Tetrachloride)			X	0	X	0	X				CCD Toxic Sub Heukelekian
Water											
Formula II											
Cyanuric Acid					X	0					Hackh's Merck 8
Chlorinated Cyanuric Acid											

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Hydantoin Type:													
1,3-dichloro-5,5-dimethylhydantoin		100			X		X						Merck 8
N-Bromo-chlorodimethylhydantoin		100						0	X				CCD
Algae Control													
Formula A													
Alkyl Aryl Ammonium Chlorides		usually 10											
Such as:													
Alkyl Dimethyl Dichlorobenzyl Ammonium Chloride (may be as high as 40%)													
Alkyl Dimethyl Ethyl Ammonium Chloride													
Dodecyl Benzyl Trimethyl Ammonium Chloride													

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Alkyl Dimethyl Benzyl Ammonium Chloride				X			X	X				CCD	
Alkyl Dimethyl Ethyl Ammonium Chloride													
Alkyl Trimethyl Ammonium Chloride													
Alkyl Methyl Dipolyoxypropy- lene Ammonium Methyl Sulfate													
Dodecylamine Hydrochloride													
may contain:													
Copper EDTA		0.1-22		X	X	X	0					CCD Heukelekian	
Sodium Carbonate		2-92										CCD	
Sodium or Potassium EDTA				X	X	X	0					CCD Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Sodium Tripolyphosphate		0.5		X		0	X		X			CCD Merck 8	
Trisodium Phosphate		2.5				0	X		X			Merck 8	
Water													
Octyl Phenoxy Polyethoxy Ethanol Isopropanol													
Formula B													
Phenyl Mercuric Acetate		4.75		X		0						Merck 8	
Alkyl Amine Acetate		3.75											
Formula C													
Potassium Dichloro-s- triazinetriene or		60											
1,3,5-trichloro-s-triazine- trione		77					X					CCD	
Sodium Carbonate		30											

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Alkyl Aryl Ammonium Chloride		1											
Formula D													
Dichlorodimethyl Hydantoin		80		X		X						Merck 8	
Potassium Iodide		20		X		0	X					CCD Merck 8	
Disinfectant Cleaners													
Quaternary Ammonium Compounds													
Alkyl (C ₈ -C ₁₈) Dimethylbenzyl Ammonium Chloride		0.5-2.5		X								Toxic Sub	
Octyl Phenoxy Polyethoxy Ethanol		2-5				0	X	X				CCD	
Sodium Carbonate		0.1-0.3										CCD	
Sodium Salt of Ethylenediamine- tetraacetic Acid		0.1-1.0		X	X	X	0					CCD Heukelekian III-B	

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Sodium Sulfite or Sodium Nitrite		0.05-1.0					0 0	0 0	0 0	X X			Merck 8 CCD
Water		70-80											
Substituted Phenolics and Pine Oil													
Coconut Oil Soap (Anhydrous)		4-10						X	X		X		CCD
Substituted Phenols (e.g., Ortho-benzylparachlorophenol)		3-5			X								Toxic Sub
Isopropyl Alcohol		5-10				X	0	0					CCD Heukelekian
Pine Oil		5-10							X		X		CCD
Water		70-80											
Pine Oil Disinfectant													
Pine Oil		60-80							X		X		CCD
Vegetable Oil Soap (Anhydrous)		20-30											

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water				10-20										
Quaternary Ammonium Compounds														
Mostly derivatives of dimethyl benzyl- ammonium chloride														
Water														
Formula II														
Quaternary Ammonium Compounds				3-6										
Ethylene Oxide Condensate				6-10		X			0					CCD
Sodium Carbonate				2-3										CCD
Versene (see Ethylene Diamine Tetracetic Acid)				0-2		X	X	X	0					CCD Heukelekian III-B
Inert Ingredients, Probably Liquid								X	X					CCD
Glycerine				1		X	X	0	X	0				CCD Merck 8 Heukelekian III-B
Soap				4-30										

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Isopropanol		7-20		X	0	0					CCD Heukelekian
Sodium Dodecyl Benzyl Sulfonate			X			X					CCD Merck 8
may contain:											
Dyes						X					
Essential Oils			X		X	X	X		X		CCD K-0
Ethanol				X	0	0	X				CCD Heukelekian
Nonyl Phenol Polyethylene Glycol Ether											
Nonylphenoxy Polyoxy Ethylene Ethanol											
Sodium Tripolyphosphate			X		0	X		X			CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Acids													
Acetic Acid					X			0	X				CCD
Alkyl (C ₈ -C ₁₈) Dimethylbenzylammonium Chloride					X								Toxic Sub
Ammonium Chloride					X		0	X	0				CCD Merck 8 Toxic Sub
Benzoic Acid					X	X	X	X					Hackh's CCD Merck 8 Toxic Sub Heukelekian
Boric Acid					X		0	X	0				Merck 8 Hackh's Toxic Sub
Butyric Acid					X			X			X		Merck 8 Toxic Sub
Carbonic Acid													CCD

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Chloroacetic Acid			X		0	X					Merck 8 Toxic Sub
Citric Acid			X	X	0	X	0				CCD Toxic Sub Heukelekian
Formic and Related Acids			X		0	0	X				CCD
Lactic Acid				X		X	0				CCD
Propionic Acid					0	0	X				CCD
Pyroligneous Acid						X					CCD
Salicylic Acid			X		X	X					Merck 8 Heukelekian
Sulfurous Acid			X		0	0	X				CCD
Alkalies											
Formula I											
Ammonium Hydroxide		3-29	Gleason	X		0	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Water		71-97	Gleason									
Formula II												
Sodium Hydroxide		94		X		0						Merck 8
Sodium Carbonate		2										CCD
may contain:												
Borax				X		0	X					CCD Toxic Sub
Calcium Hydroxide				X		X	X					Merck 8
Sodium Silicates												Merck 8
Trisodium Phosphate						0	X		X			Merck 8
Halogens												
Liquid												
Sodium Hypochlorite		5-16				0	X	X				CCD
Sodium Hydroxide		0.1-1	X		0						Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Sodium Chloride		5-10			X		0	X					Merck 8 Hackh's
Water		84-90											
Powder													
Formula I													
Organic Chlorine Compound, e.g.,		50-100											Merck 8 Hackh's Merck 8
Heptachlor					X								
Hexachlorobenzene					X		X	0					
Paradichlorobenzene					X		X		X				
Dichloroisocyanurate		0-92											Merck 8
Pelletizing Binders, etc.		0.50											
Formula II													Hackh's
Calcium Hypochlorite		50-100							X				

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
may contain:												
Trisodium Phosphate		0-92				0	X		X			Merck 8
Halazone						X	X	X				CCD
Pine Oil								X		X		CCD
Soap												
Soda Ash						0	X					CCD
Sodium Borate				X		0	X	0				CCD Merck 8
Iodophor Disinfectants												
Polyethoxy Polypropoxy Ethanol-Iodine Complex		7-10		X		0						Merck 8 Gleason
Nonyl Phenyl Ether of Polyethylene Glycoliodine Complex		7-10		X		0						Merck 8 Gleason
Hydrogen Chloride (provides 1.6% available iodine) or Phosphoric, citric or butyronic acid)		0-10		X			X					Hackh's Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Miscellaneous Disinfectants												
Formaldehyde		20		X	X	0	0	X				CCD Heukelekian
may contain:												
Mercury Compounds		small amount		X								
Phenol Disinfectants												
Chlorophenols, e.g., Orthobenzylpara- chlorophenol or		3-8		X								Toxic Sub
Chloro-2-phenyl-phenol							X	X				CCD
Phenols (often from coal tar)												
Phenol				X	X	0	0	X				Merck 8 III-B Toxic Sub Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information.

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Tertiary Amyl Phenol		20-50		X		X							Merck 8
Cresol				X		0	X	X					Merck 8
Versene (see Ethylene Diamine Tetracetic Acid)		1-3		X	X	X							CCD Heukelekian III-B
Complex Phosphates, e.g., Tetrasodium- pyrophosphate, as Potassium and Sodium Salts		1-3				0				X			Merck 8
Tripolyphosphate, as Potassium and Sodium Salts				X		0	X			X			CCD Merck 8
Glycerine		1		X	X	0	X	X					CCD Merck 8 Heukelekian III-B
Soap		4-30											
Isopropyl Alcohol		0-20			X	0	0						CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Surfactants, e.g., Sodium Dodecyl Benzyl Sulfonate						X								III-B
Water														
may contain:														
Aromatic Hydrocarbon Solvents (see Coal Tar)				44-58				X	X	X				CCD
Pine Oil														
Formula I														
Pine Oil				60-90						X		X		CCD
Soap				10-30										
Water				10										
Formula II														
Pine Oil				5-10						X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Phenols		2-6		X	X	0	0	X					Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Soap		5-10											
Alcohol		5-10			X	0	0	X					CCD Heukelekian
may contain:													
Dye								X					CCD
Isopropanol					X	0	0						CCD Heukelekian
Potassium Orthobenzylpara- chlorophenate													
Potassium Tetraphyrophosphate													
Propylene Glycol				X									Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Versene (see Ethylene Diamine Tetracetic Acid)					X	X	X	0					CCD Heukelekian III-B
Miscellaneous Sanitizers (see Cleaners; Disinfectants)													
Iodine-bearing:													
Available Iodine		1.5-2			X		X	X	X				Merck 8
Detergents		to 100											
Mild Acids													
Quaternary Type:													
Quaternary Ammonium Compounds		10											
Water		to 100											
Chlorine Type:													
Sodium Hypochlorite							0	X	X				CCD
Calcium Hypochlorite								X					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Chlorinated Organic Compounds													
Acid Type:													
Saponified Cresylic Acid				X								CCD	
Phosphoric Acid				X		0	0	0				CCD	
Garbage Can													
Formula I													
Ortho-dichlorobenzene		20-60		X		X						Merck 8	
Petroleum Distillate		10										Gleason	
Pine Oil		5						X		X		CCD	
may contain:													
Methylated Aromatic Petro- leum Derivatives		14-15											
Dichlorodiphenyltrichloro- ethane		5		X		X	0					CCD	

x - may be an effect
 o - no effect
 blank - no information

2842 332		DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
2,2'-Thiobis(4-chloro-6-methylphenol)		0.25											
Propellants (Freons) if spray		60			X			0	X				CCD
Formula II													
Sodium Chloride		90			X		0	X					Merck 8
Lime		10											
Formula III													
Paradichlorobenzene		95			X		X		X				Merck 8
Pine Oil		1.5							X		X		CCD
Essential Oils, small amounts					X		X	X	X		X		CCD K-0
Formula IV													
Naphthalene		85			X	0	X	X	X				Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 332	DISINFECTANTS, FOR USES OTHER THAN AGRICULTURAL (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Methyl Salicylate			5		X		X	X	X				CCD Merck 8
Formula V													
Sodium Hypochlorite							0	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wall Cleaners (see also Paint, Floor, or Wallpaper Cleaners)		Gleason									
Ammonium Hydroxide			X			O	X				CCD, Merck 8
Borax			X		O	X					CCD Toxic Sub
Colloidal Clay											CCD
Diglycol Stearate					X	X	X				CCD
Kerosene				X							Heukelekian
Powdered Dry Soap											
Silica			X		X	X					CCD, Merck 8
Soda Ash					O	X					CCD
Sodium Lauryl Sulfate					O	X	X				CCD, Merck 8
Sulfated Fatty Alcohol											
Trisodium Phosphate					O	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Nonionic Surfactants	0.5-5		X								III-B
Paint and Varnish Cleaners											
Paste Type											
Soap	20-30										
Kerosene	0-40			X							Heukelekian
Trisodium Phosphate	0-15				O	X		X			Merck 8
Water	50-75										
may contain:											
Filler											
Silica or	10-40		X		X	X					CCD, Merck 8
Kaolin					X	X	X				CCD
Sodium Carbonate	0-40										CCD
Perfume	less than 1%		X		X	X	X		X		CCD, K-O

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Liquid												
Formula I												
Soap			2									
Anionic Surfactant			1	X								III-B
Water			q.s.									
Formula II												
Sulfated Fatty Alcohol			10									
Ammonia			20	X	O	O	X					Hackh's, CCD Merck 8 Toxic Sub
Water			70									
Formula III												
Soap			6									
Kerosene			17		X							Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 341 WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Colloidal Clay	7										CCD
Water	70										
may contain small amounts of:											
Borax			X		O	X					CCD Toxic Sub
Isopropyl Alcohol				X	O	O					CCD Heukelekian
Tetrasodium Pyrophosphate					O			X			Merck 8
Powdered											
Trisodium Phosphate	30-50				O	X		X			Merck 8
Soda Ash (Sodium Carbonate)	25-50				O	X					CCD
Soap	0-8										
may contain:											
Sodium Bicarbonate	25		X		O	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 341 WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Ammonium Chloride	5	X		O	X					CCD, Merck 8 Toxic Sub
Miscellaneous										
Dichloromethane	49	X		O	O					Merck 8
Ethylene Dichloride	30	X	X	X		X				Merck 8 III-B Mills 8 Heukelekian
Alcohol	3.5		X	O	O	X				CCD Heukelekian
Naphthalene	8.5	X	O	X	X	X				Merck 8 III-B Heukelekian
Paraffin	7			X	X			X		Merck 8
Resin	1.4			X	X					CCD
Rubber (Synthetic)	0.5									
Acetophenol	0.1									

x - may be an effect
 o - no effect
 blank - no information

2842 341		WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Paint Cleaner													
Waxes							X	X					CCD
Resins							X	X					CCD
Emulsifiers													CCD
Water													
Wallpaper Cleaner													
Formula I													
Wheat Flour		42						X					Hackh's
Water and Salt Solution		55											
Kerosene		2				X							Heukelekian
Ammonium Alum		0.006					0	0	0				CCD
Aniline or		trace						X					CCD
Vegetable Dye }								X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II											
Kaolin	79				X	X	X				CCD
100 Octane DC Naphtha	20										
Carbon Tetrachloride	1		X	0	X	0	X				CCD Toxic Sub Heukelekian
may contain:											
Alkali Metal Salts as Preservatives (slight amount)			X								CCD
Ammonium Hydroxide			X			0	X				CCD, Merck 8
Borax			X		0	X					CCD Toxic Sub
Coconut Oil Soap						X	X		X		CCD
Ethyl Ether			X	X			X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Ethylene Dichloride					X	X	X		X				Merck 8 III-B Mills 8 Heukelekian
Ethylene Glycol Monobutyl Ether							0	0	X				
Glycerin					X	X	0	X	0				CCD, Merck 8 Heukelekian III-B
Kerosene (slight amount)						X							Heukelekian
Naphthalene					X	0	X	X	X				Merck 8 III-B Heukelekian
Nonionic Surfactant					X								III-B
Oleic Acid					X		X	X/0					Merck 8
Potash							0	X					CCD
Sawdust													

x - may be an effect
 o - no effect
 blank - no information

2842 341	WALLPAPER, WINDOW SHADE AND WALL CLEANER (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Soda Ash						0	X					CCD
Triethanolamine				X	X		X	X				CCD Merck 8 Heukelekian III-B
Trisodium Phosphate						0	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 351	RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Rug and Upholstery Cleaners				Gleason									
Soap Based													
Coconut Oil Soap			12					X	X		X		CCD
Ammonia (28%)			2.8		X		0	0	X				CCD Hackh's Merck 8 Toxic Sub
Glycerine			7.9		X	X	0	X	0				CCD, Merck 8 III-B Heukelekian
Water			77.5										
may contain:													
Sodium Carbonate			0.5										CCD
Turpentine			5					X	X				CCD
Alkaline Cleaners													
Soda Soap (see Sodium Hydroxide)			55-75		X		0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 351	RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Trisodium Phosphate		6-15				0	X		X			Merck 8	
Sodium Carbonate		0-15										CCD	
Borax		0-30		X		0	X					CCD Toxic Sub	
Naphthalene		0-1		X	0	X	X	X				Merck 8 III-B Heukelekian	
Oils, Essential		0-1.5		X		X	X	X		X		CCD, K-0	
may contain:													
Sodium Lauryl Sulfate						0	X	X				CCD Merck 8	
Soap-Solvent Combination													
Butyl Cellosolve (see Ethylene Glycol Monobutyl Ether)		2.5-3.5				0	0	X				CCD	
Ethylene Dichloride		7.5-8.5		X	X	X		X				Merck 8 III-B Mills 8 Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2842 351	RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Oleic Acid		7.5-11.0		X		X	0/X					Merck 8	
Ammonia (28%)		0-7.5		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub	
Triethanolamine		0-8		X	X		X	X				CCD Merck 8 III-B Heukelekian	
Soap		0-2											
Borax		0-2		X		0	X					CCD Toxic Sub	
Denatured Alcohol		0-10											
Isopropyl Alcohol		0-7			X	0	0					Heukelekian Gleason	
Water		45-95											

x - may be an effect
 o - no effect
 blank - no information

2842 351		RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Fatty Alcohol Sulfate		2											
Trisodium Phosphate		1.5					0	X		X			Merck 8
Alcohol		10.5			X		0	0	X				CCD Heukelekian
Water		86											
Upholstery (mainly for)													
Perchloroethylene or		up to 50			X		X	0	X				Merck 8
1,1,1-trichlorethane					X		X						Merck 8
Petroleum Solvent (Stoddard)		up to 50						0	0				CCD
Alkaline Salts		10-20											
Butane Propellant, for sprays only					X		X	0	X				CCD Toxic Sub
Freon Propellant, for sprays only					X			0	X				CCD
Water													

x - may be an effect
 o - no effect
 blank - no information

2842 351	RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
may contain: Ammonia Borax, small amount Ethylene Dichloride Lanolin Orthodichlorobenzene Perfume Pine Oil, up to 10% Soap Sodium Bicarbonate												Hackh's Merck 8, CCD Toxic Sub CCD Toxic Sub Merck 8 III-B Mills 8 Heukelekian Merck 8 Merck 8 CCD, K-0 CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 351 RUG AND UPHOLSTERY CLEANERS, CONSUMER TYPE PREPARATIONS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Sodium Chloride			X		O	X					Merck 8
Sodium Sulfate					O		O				Merck 8
Absorbent Type (for rugs)											
Sawdust											
Trichloroethylene			X		X		X				Merck 8
Buck Wheat or } Bentonite }	60-70				X	X					CCD Merck 8
Petroleum Distillate (light)	25										Gleason
Wood Flour	5					X					CCD
may contain:											
Salicylic Acid	1		X	X	X	X					Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 381	DEODORANTS, NONPERSONAL: AEROSOL TYPE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Air Sanitizer (see also Cleaners; Deodorizers)		Gleason									
Alkyl Dimethyl Ethyl Benzyl and Alkyl Dimethylbenzyl Ammonium Compounds, e.g., Benzalkonium Chloride	20		X		O	X	X				CCD Merck 8 Toxic Sub
Water											
Versene			X	X	X	X					CCD III-B Heukelekian
may contain:											
Essential Oils			X		X	X	X		X		CCD, K-O
Isopropanol				X	O	O					CCD Heukelekian
Propellants											
Propylene Glycol			X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 381	DEODORANTS, NONPERSONAL: AEROSOL TYPE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Triethylene Glycol			X	X		0	X				Merck 8 Heukelekian III-B
Trichlorofluoromethane			X		X		X				Merck 8
Bathroom Deodorant											
Naphthalene			X	0	X	X	X				Merck 8 III-B Heukelekian
Paradichlorobenzene			X		X		X				Merck 8
Sodium Bisulfate											Merck 8
These formulations may contain a trace of perfume.											
Spray Type Deodorizers											
Formula I											
1,1,1-Trichloroethane	10		X		X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 381		DEODORANTS, NONPERSONAL: AEROSOL TYPE (Cont'd)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Isopropanol		6.9			X	0	0					CCD Heukelekian
Triethylene Glycol		4.1		X	X		0	X				Merck 8 Heukelekian III-B
Dipropylene Glycol		4.0				0	0					CCD
Di-isobutyl Phenoxy Ethoxy Ethyl Dimethyl Benzyl Ammonium Chloride		0.05		X		0	0					CCD Merck 8
Essential Oils				X		X	X	X		X		CCD, K-0
Propellants												
Formula II												
Metazene		4										
Petroleum Distillates		6										Gleason
Propellants (Freons)		up to 90		X			0	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2842 381	DEODORANTS, NONPERSONAL: AEROSOL TYPE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
may contain:											
Aluminum Chlorhydrol											
2,3,4,5-bis(2-Butylene) Tatrahydrofurfural			X								Toxic Sub
Carbon Tetrachloride			X	O	X	O	X				CCD Toxic Sub III-B Heukelekian
Cellosolve Acetate					O	O	X				CCD
Ethanol				X	O	O	X				CCD Heukelekian
Fatty Esters											CCD
Formaldehyde			X	X	O	O	X				CCD Heukelekian
Hexachlorophene			X		X	X	O				CCD Merck 8 III-B

x - may be an effect
o - no effect
blank - no information

2842 381	DEODORANTS, NONPERSONAL: AEROSOL TYPE (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lauryl Methacrylate		up to 10										CCD
Methoxychlor			X		X	X						CCD
Methylene Chloride			X		O	O						Merck 8
Orthophenylphenol			X		X	X	X					Merck 8
Paradichlorobenzene			X		X			X				Merck 8
Pine Oil								X		X		CCD
Piperonyl Butoxide			X							X		Merck 8
Pyrethrin			X		X							Merck 8
Synthetic Surfactants			X									III-B
Trichloromonofluoromethane			X		X			X				Merck 8
Wax							X	X				CCD
Zinc Phenolsulfonate							O		O			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 385	DEODORANTS, NONPERSONAL: OTHER												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Deodorant Blocks			Gleason										
Formula I													
Paradichlorobenzene		99		X		X		X				Merck 8	
Essential Oils		1		X		X	X	X		X		CCD, K-0	
Formula II													
Naphthalene		80		X	0	X	X	X				Merck 8 III-B Heukelekian	
Cedar Wood		0-20		X			X	X				CCD	
Formula III													
Paraformaldehyde		85		X		0	X	X				Merck 8	
Ice Box or Refrigerator Deodorizers													
Activated Charcoal		100										CCD	

x - may be an effect
 o - no effect
 blank - no information

2842 385	DEODORANTS, NONPERSONAL: OTHER (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wick Type Deodorizers											
Formaldehyde (37%)	2-3		X	X	O	O	X				CCD Heukelekian
Water Soluble Perfume	2-3		X		X	X	X		X		CCD, K-0
Coloring	trace					X					CCD
Water	to 100										
Emulsifiers											CCD
Essential Oils			X		X	X	X		X		CCD, K-0
Aromatic Chemicals (see Xylene)			X	O	X						Merck 8 III-B Heukelekian
Chlorophyll			X			X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2842 393	DRY CLEANING SPOTTING PREPARATION (LIQUID)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Water Soluble:			Gleason									
Lactic Acid		0.25-0.75			X		X	0				CCD
Salicyclic Acid		0.25-0.75		X	X	X	X					Merck 8 Heukelekian
Sodium Salts of Chlorinated Phenols		0.25-0.75										
Quaternary Ammonium Compounds in Concentrations		2.0-3.0										
Solvent												
Zinc Naphthenates or		0-8					X					CCD
Copper Naphthenates							X					CCD
Salicylanilide		0-1		X		X	0					Merck 8
8-hydroxyquinoline		0.5-1			X	0	X					CCD Thompson Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 393 DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Aliphatic											
(see Kerosene) or	30-75			X							Heukelekian
Aromatic Hydrocarbon Solvents (Xylene)			X	O	X						Merck 8 III-B Heukelekian
DDT	20-70		X		X	X					Hackh's Merck 8 Toxic Sub
Pentachlorophenol	2-6		X		X		X				Merck 8
Diatomaceous Earth	0-25										
Methylene Chloride or	0-30		X		O	O					Merck 8
1,1,1 Trichloroethane			X		X						Merck 8
Methoxychlor	0-2		X		X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 393	DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
may contain:												
			X	X	X	X						Hackh's CCD Merck 8 Toxic Sub Heukelekian Merck 8 CCD Heukelekian CCD X CCD Merck 8 Merck 8 CCD CCD Merck 8
Benzoic Acid			X	X	X	X						
Beta-naphthol			X	X	X	X	X					
Bismuth Bensoate					X	X	O					
Borates												
Calcium Propionate					O	X				X		
Chloronaphthalene						X			X			
Chloroxylenols			X		X		X					
Chloro-2-phenylphenol						X	X					
Copper Oleate			X		X	X						

x - may be an effect
 o - no effect
 blank - no information

2842 393 DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Copper-8-quinolinolate					X					CCD
Copper Resinate		X		X	X					CCD
Metacresol		X	X	X	X	X				Merck 8 Toxic Sub Heukelekian Thompson Moore
Orthocresol		X	X	X	X	X				Merck 8 Toxic Sub Heukelekian Thompson Moore
Paracresol		X	X	X	X	X				Merck 8 Toxic Sub Heukelekian Thompson Moore
Cuprammonium										
Dichlorodimethyl Succinate										

x - may be an effect
 o - no effect
 blank - no information

2842 393	DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
2,2'-Dihydroxy-5,5'-Dichlorodiphenylmethane					X		X						Merck 8
Di-(Phenylmercuric)Dodecenyl Succinate													
Ethylmercuric Phosphate					X		O	X	X				CCD
Formaldehyde					X	X	O	O	X				CCD Heukelekian
Hexyl Resorcinol							X	X	X				CCD
8-Hydroxyquinoline					X	O	X	X	X				Gleason CCD Heukelekian
Mercuric Benzoate					X		X	X					CCD
Mercuric Chloride					X		O	X	O				CCD
Mercuric Salicylate					X		X	X	O				CCD
Mercurophen					X		O	X	O				Merck 8
2,2'-Methylenebis(4-Chlorophenol)					X		X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 393		DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Monobromobenzene							X	O	X				CCD
Paranitrophenol							O	X					Merck 8
Paraformaldehyde					X		O	X	X				Merck 8
Phenyl Mercuric Acetate					X		X						Merck 8
Phenylmercury Acetoxy Octodecanoic Acid													
Phenylmercury Oleate					X		X	X					CCD
Phenylmercury Saccharinate													
Orthophenylphenol					X		X	X	X				Merck 8
Phenyl Salicylate							X	X	X				CCD
Sodium Silicofluoride					X		X	X					Merck 8
Tetrachloroethane					X		X		X				Merck 8
Tetrachlorophenol					X			X	X				CCD
Tetrabromoorthocresol					X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 393		DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Tribromonaphthol								X					Hackh's
Trichlorophenol					X		X		X				Merck 8
Zinc Chloride					X		O	X	O				Merck 8 Gleason
Zinc Dimethyldithiocarbamate					X		X						Merck 8
Zinc Oleate							X	X					Merck 8
Zinc Resinate								X					CCD
Zinc Sulfate							O	O	O				CCD
Powder	U.S. Department of Agriculture limits industrial laundry and dry cleaning products to 7.5% Pentachlorophenol				X		X		X				Merck 8
Dry Cleaners													
Formula I													
1,1,1-Trichlorethane		100			X		X		X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 393	DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Formula II											
1,1,1-Trichlorethane		less than 100									
Combined with:											
Perchloroethylene			X		X	0	X				Merck 8
Stoddard Solvent							0				CCD
Surfactants			X								III-B
Emulsifiers											CCD
Toluene			X	0	X		X				Merck 8 Heukelekian III-B
may contain:											
Carbon Tetrachloride			X	0	X	0	X				CCD Toxic Sub III-B Heukelekian

x - may be an effect
o - no effect
blank - no information

2842 393	DRY CLEANING SPOTTING PREPARATION (LIQUID) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ethylene Dichloride			X	X	X		X				Merck 8 III-B Mills 8 Heukelekian
Orthodichlorobenzene			X		X						Merck 8
Xylene			X	0	X						Merck 8 III-B Heukelekian
If xylene, toluene, carbon tetrachloride or orthodichlorobenzene are present, in appreciable quantities, the toxicity is greater.											
Formula III											
Carbon Tetrachloride	50-70		X	0	X	0	X				CCD Toxic Sub III-B Heukelekian
Mineral Spirits	30-50		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 394	FABRIC SOFTENERS										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Laundry Rinses		Gleason									
Fabric Rinse and Softener											
Dialkyl (C ₁₆ -C ₁₈) Dimethyl Ammonium Compounds	2-8										
Isopropanol	1-2			X	0	0					CCD Heukelekian
Water	90-93										
may contain:											
Sulfonated Fatty Acid Amides											CCD
Optical Bleaching Agent						0					CCD
Dye						X					
Nonionic Surfactants			X								III-B
Laundry Rinsing Aid											
Nonionic Surfactant	2		X								III-B

x - may be an effect
 o - no effect
 blank - no information

2842 395	LAUNDRY STARCH PREPARATIONS, INCLUDING PERMANENT TYPES (RESIN, STARCH, ETC.): AEROSOL		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Laundry Starch			Gleason								CCD Heukelekian
Spray											
Corn Starch				X	X	X					
Silicone											
Freon Propellant				X		O	X			CCD	

x - may be an effect
 o - no effect
 blank - no information

2842 396	LAUNDRY STARCH PREPARATIONS, INCLUDING PERMANENT TYPES (RESIN, STARCH, ETC.): OTHER LIQUID												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Laundry Starch				Gleason									
Liquid													
Corn Starch			7-10			X	X	X					CCD Heukelekian
Sodium Carboxymethylcellulose			2-3		0	X	0	X	0				Merck 8 CCD Heukelekian
Sodium Chloride			3-4		X		0	X					Merck 8
Borax			0-2		X		0	X					CCD Toxic Sub
Formaldehyde			0-0.2		X	X	0	0	X				CCD Heukelekian
Phenolic Preservatives			0-0.3										
Water			to 100%										
may contain:													
Bluing													

x - may be an effect
 o - no effect
 blank - no information

2842 396	LAUNDRY STARCH PREPARATIONS, INCLUDING PERMANENT TYPES (RESIN, STARCH, ETC.): OTHER LIQUID (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dye								X					
Emulsifying Agents													CCD
Paramethylbenzoic Acid							X	O					CCD
Perfume					X	X	X	X	X		X		CCD, K-0
Phenyl Mercuric Acetate					X		X						Merck 8
Sodium Hexameta Phosphate													
Sodium Tripoly Phosphate					X		O	X		X			Merck 8
Sulfated and Sulfonated Oils							O						CCD
Terpineol							X	O	X				CCD
Tricresyl Phosphate					X		X				X		Merck 8
Wheat Flour								X					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2842 397	LAUNDRY STARCH PREPARATIONS, INCLUDING PERMANENT TYPES (RESIN, STARCH, ETC.): DRY			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Laundry Starch			Gleason									
Powder												
Corn Starch		0-95			X	X	X					CCD Heukelekian
Borax		2		X		O	X					CCD Toxic Sub
Vinyl Acetate Copolymer Resin		0-20				X	O					CCD
Orthophenyl Phenol, Sodium Salt		0.1				O	X					CCD
Pentachlorophenol, Sodium Salt		0.1		X		O	X					CCD
Wax					X	X					CCD	

x - may be an effect
 o - no effect
 blank - no information

2842 398		OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Stain, Spot, Lipstick, Rust Removers			Gleason									
Bleach Type												
Sodium Hypochlorite		2-8				0	X	X				CCD
Water		92-98										
Solvent Type												
Carbon Tetrachloride	}	20-50		X	0	X	0	X				CCD
Perchloroethylene				X		X	0	X				Merck 8
Trichloroethane				X		X						Merck 8
Naphtha												
Isopropanol		10-30			X	0	0					CCD
Acetic Acid		5-10		X			0	X				CCD
												Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 398	OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
General Type														
Ammonium Hydroxide						X			0	X				CCD Merck 8
may contain:														
Amyl Acetate						X								Toxic Sub
Butyl Acetate						X	X	X	0	X				Toxic Sub Heukelekian
Ethyl Acetate							X	X	0	X				CCD Heukelekian
Benzene						X	X	X	0	X				Merck 8 Toxic Sub III-B Moore Heukelekian
Essential Oils						X		X	X	X		X		CCD, K-0
Oxalic Acid						X	X	0	0					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 398 OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)											REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Parahydroxybenzoic Acid					0	0					CCD
Soap											
Sodium Sulfate					0						Merck 8
Surfactants (Alkyl Aryl Sodium Sulfonate)			X								III-B
Tetrapotassium Pyrophosphate					0	X		X			CCD
Toluene			X	0	X		X				Merck 8 III-B Heukelekian
Bleach Type (Coffee Stain Removers)											
Sodium Hypochlorite	8				0	X	X				CCD
Water	92										
Iodine Stain Remover											
Sodium Thiosulfate	10				0						Merck 8
Water	90										

x - may be an effect
 o - no effect
 blank - no information

2842 398	OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Lipstick Removers												
Isopropyl Alcohol					X	0	0					CCD Heukelekian
Isoamyl Acetate				X		X	0					CCD Merck 8
Petroleum Hydrocarbons												Gleason
Carbon Tetrachloride				X	0	X	0	X				CCD Toxic Sub III-B Heukelekian
Butyl Cellosolve						0	0	X				CCD
Chloroform				X	X	0	0	X				Hackh's Merck 8 Toxic Sub III-B Heukelekian
Alcohol				X	X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 398	OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Rust and Ink Removers													
Oxalic Acid					X	X	0	0					Merck 8 CCD
Methyl Alcohol					X	X	0	0	X				CCD Merck 8 Heukelekian
Water													
Hand Cleaners, Powdered													
Formula I													
Pumice			40-70				X						CCD
Soap			20-35										
Sodium Phosphate			0-5										
Colloidal Clay			0-25										CCD
Sodium Carbonate			0-5										CCD

x - may be an effect
 o - no effect
 blank - no information

2842 398		OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Formula II													
Borax		60-80		X		0	X						CCD Toxic Sub
Soap		20-40											
Waterless Cleaners													
Formula I													
Soap		10-30											
Solvent (Petroleum Distillate)		20-60											Gleason
Anionic Surfactant		0-10		X									III-B
Water		30-40											
Dust Control													
Formula II													
Floor Sweep													
Sand		50											
Sawdust		50											

x - may be an effect
 o - no effect
 blank - no information

2842 398		OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Paraffin Oil												
Sanitizing Dust Control												
Mineral Oil		20-96										
Petroleum Distillate		0-100										Gleason
1,1,1-Trichloroethane		0-50		X	X							Merck 8
may contain:												
4- and 6-Chloroortho-phenylphenol							X	X				CCD
Orthophenylphenol				X	X	X	X					Merck 8
Quaternary Ammonium Compounds												
Phenyl Mercuric Propionate							X					CCD
Nonionic Surfactants				X								III-B
Silicones												CCD
Propellants				X			0	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2842 398	OTHER SPECIALTY DETERGENTS, INCLUDING SWEEPING COMPOUNDS AND WATERLESS HAND CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Formula III Mineral Oil Nonionic Surfactant Alkyl Dimethyl Benzyl Ammonium Chloride Methylene Chloride Freon Propellants Formula IV Mineral Oil Perfume Freon Propellants may contain: (See Formula II)			0.25									III-B Toxic Sub Merck 8 CCD CCD, K-0 CCD

x - may be an effect
 o - no effect
 blank - no information

2842 4	POLISHING PREPARATIONS AND RELATED PRODUCTS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
General Purpose Polish			Gleason									
Turpentine							X	X				CCD
Mineral Spirits				X								Merck 8
Waxes						X	X					CCD
may contain:												
Coloring												
Detergent												
Emulsifier												CCD
Mineral Waxes (May be Chlorinated)						X	X					
Perfume				X		X	X	X		X		CCD K-0
Vegetable Waxes (e.g., Carnauba)						X	X	X				CCD
Wood Preservative												CCD
Zinc Stearate				X		X		X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Automobile Polishes			Gleason									
Gloss and Protective Ingredients:												
Silicone Oil		1-5										CCD
Wax (Carnauba)		1-5				X	X	X				CCD
Wax (Microcrystalline)						X	X					CCD
Cleaning Agents:		25-70										
Water		60										
Alcohols		2-10			X	O	O	X				CCD Heukelekian
Mineral Spirits												
Aromatic Hydrocarbons		2-5										
Abrasives:												
Snowfloss (Diatomaceous Earth)												
Superfloss												

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emulsifiers:											
Morpholine Acid or			X	X		0	X				CCD Heukelekian
Oleic Acid			X		X	X					Merck 8
Triethanolamine Acid or			X	X		X	X				CCD Merck 8 III-B Heukelekian
Stearic Acid					X	0	X				CCD
Synthetic and Vegetable Gums				X	0	X	X				Merck 8 Heukelekian
Automotive Rubbing Compounds											
Hand Application Type:											
Tripoli (Silica)	27-40		X		X	X					CCD Merck 8
Kerosene	25-30			X							Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Cyclohexanol		Up to 5		X	X	X	0	X		X		CCD Toxic Sub Heukelekian
Soda Soap or Amine Soap		3-10										
Water		10-37										
Mineral Oil or } Waxes		8-10				X	X					CCD
Pine Oil		2-8						X		X		CCD
Machine Application Type:												
Tripoli (Silica)		27-40		X		X	X					CCD Merck 8
Kerosene or } Naphtha		10-20			X							Heukelekian
				X		X	0	X		X		CCD Merck 8
Sulfonated Vegetable Oils		5-10				0						CCD

x - may be an effect
 o - no effect
 blank - no information

2842 411 AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Mineral Oil or } Paraffin Oil }	5-15				X	X					CCD
Ethanolamine Oleate Soaps	1-5										
Pine Oil	1-5						X		X		CCD
Water	10-37										
may contain:											
Amyl Acetate			X								Toxic Sub
Butoben					X						Merck 8
Caraway Oil					X	X	X		X		CCD
Cedar Oil			X			X	X				CCD
Citronella Oils			X			X	X				CCD Toxic Sub
Dye						X					
Emulsifiers											CCD

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Ethanol							X	O	X	X				CCD Heukelekian
Fatty Acids														
Formaldehyde						X	X	O	O	X				CCD Heukelekian
Glycerine						X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Methanol						X	X	O	O	X				CCD Merck 8 Heukelekian
Morpholine						X	X		O	X				CCD Heukelekian
Perfume						X		X	X	X		X		CCD K-O

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Phenol (1%)			X		O	X	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Silicone and Oils (1-5%)											CCD
Trichloroethylene			X		X		X				Merck 8
Turpentine						X	X				CCD
Vegetable Gums				X	O	X	X				Merck 8 Heukelekian
Xylene			X	O	X						Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Automotive Cleaners and Car Wash Compounds												
General Purpose:												
Petroleum Naphthas	50-60		X		X	0	X			X		CCD Merck 8
Orthobenzylparachlorophenol	0.1		X									Toxic Sub
Petroleum and Synthetic Waxes	40-50											
Emulsifying Agents												CCD
Solid:												
Sodium Dodecylbenzene Sulfonate	40-100		X			X						CCD Merck 8
Sodium Sulfate	15-25				0							Merck 8
may contain:												
Alkyl Diethanolamine	2											
Nonionic Detergents Such as Phenoethylene Oxide Type	10-15		X									III-B

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Liquid:											
Dodecyl Benzene Sulfonate	6										
Coconut Oil Amine	2						X		X		CCD
Water	92										
may contain:											
Benzene			X	X	X	0	X				Merck 8 Toxic Sub III-B Moore Heukelekian
Fatty Amide Condensate											
Hydrochloric Acid			X			X					Hackh's Merck 8
Hydrophilic Wax											
Polyphosphates											

x - may be an effect
 o - no effect
 blank - no information

2842 411	AUTOMOBILE BODY POLISH AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Silicone											CCD
Sulfonated Ketones											
Triethanolamine Lauryl Sulfonate											
Formula IV											
Alkyl Aryl Sodium Sulfonate	40										
Sodium Sulfate	60				0						Merck 8
may contain:											
Diethanolamine			X		0	X					Hackh's Merck 8
Lauryl Diethanolamide											

x - may be an effect
 o - no effect
 blank - no information

2842 415	FURNITURE POLISHES AND CLEANERS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Wood Polishes (See Furniture Polish)				Gleason								
Cream												
Kerosene			55		X							Heukelekian
Emulsifying Agent			3									CCD
Isopropanol			4		X	0	0					CCD Heukelekian
Water			38									
Oil												
Kerosene			90-100		X							Heukelekian
Cedar Wood Oil			Small Amount		X		X	X				CCD
Turpentine			Small Amount				X	X				CCD
Color			Trace									

x - may be an effect
 o - no effect
 blank - no information

2842 415	FURNITURE POLISHES AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Furniture Polish											
Solvent Type											
Oil Polish											
Petroleum Distillate	65-99										Gleason
Perfume	0.05-0.5		X		X	X	X		X		CCD K-0
Dye	0.005- 0.01					X					CCD
may contain:											
Turkey Red Oil											
Wax Solvent											
Mineral Spirits	90-95		X								Merck 8
Wax (Carnauba, Candelilla, Beeswax, Gersthoven Wax Ozokerite)	1.5-5				X	X					CCD

x - may be an effect
o - no effect
blank - no information

2842 415	FURNITURE POLISHES AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Silicone	1.5-5										CCD
may contain											
Amyl Acetate			X								Toxic Sub
Turpentine						X	X				CCD
Emulsion Type											
Oil Type											
Petroleum Distillate	40-60										Gleason
Emulsifier (Diglycol Laurate)	3-15		0			X	0		X		CCD
Water	20-60										
Perfume (Essential Oils, e.g., Oil of Citronella, Cedar Wood, Lemon Sassafras)	0.1-.3		X		X	X	X		X		CCD
Preservative	0.1-.5										
may contain:											

x - may be an effect
 o - no effect
 blank - no information

2845 415 FURNITURE POLISHES AND CLEANERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Cetyl Alcohol					X	X	X				CCD
Isopropanol				X	O	O					CCD Heukelekian
Methyl Salicylate (Perfume)			X		X	X	X				Merck 8 CCD
Wax Type											
Mineral Spirits	0-80		X								Merck 8
Wax	0-3										
Emulsifier	3-15										CCD
Water	10-80										
Perfume and Dye	Trace		X		X	X	X		X		CCD K-0
Preservative	0.1-0.5					X					CCD
may contain:											

x - may be an effect
 o - no effect
 blank - no information

2842 415	FURNITURE POLISHES AND CLEANERS (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Alkyl Sodium Sulfate											
Amine Soaps											
Bentonite					X	X					CCD Merck 8
Ethylene Glycol			X	X							Merck 8 III-B Heukelekian
Glycerine			X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Gums as Thickeners (Tragacanth, Gelatin, Arabic)					0	X	0				CCD
Hydroxyethyl Cellulose					0	X					CCD
Isooctyl Phenyl Polyethoxy Ethanol											

x - may be an effect
 o - no effect
 blank - no information

2842 415 FURNITURE POLISHES AND CLEANERS (cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Petroleum Synthetic Waxes											
Pine Oil							X		X		CCD
Quaternary Ammonium Compounds											
Shellac			X		X	X					CCD
Silicones											CCD
Synthetic Resin											
Turpentine						X	X				CCD
Aerosol Type											
Natural and/or Synthetic Waxes }	0-5				X	X					CCD
Silicone Oils	0-4										CCD
Mineral Oils	0-2										

x - may be an effect
 o - no effect
 blank - no information

2842 415	FURNITURE POLISHES AND CLEANERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emulsifiers	1-3										CCD
Petroleum or Synthetic Naphthas	0-30										
Perfumes	0.05-0.3		X		X	X	X		X		CCD K-0
Preservatives	0.05-0.2										
Propellants:											
Compressed Gas (Nitrous Oxide) or	1-2				X	0					CCD
Compressed Liquid (Hydrocarbons or Fluorocarbons	4-15										
Water	40-90										

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Floor Polish (also see Furniture Polish)		Gleason									
Self-polishing											
Formula I											
Synthetic Polymer	9-15										
Alkali Soluble Natural and/or	1-3				X	X					CCD
Synthetic Resin											
Waxes	1-4				X	X					CCD
Coalescing Agents											
Wetting Agent (e.g., Silicones)	0.005-0.1										CCD
Preservative	0.1-0.2										
Perfumes	0.02-0.2		X		X	X	X		X		CCD K-0
Water	75-85										

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:														
Ammonia						X		0	0	X				Hackh's CCD Merck 8 Toxic Sub
Amines (Morpholine)						X	X		0	X				CCD Heukelekian
Fatty Acids (Oleic)						X		X	0					Merck 8
Nonionic and Anionic Surfactants						X								III-B
Formula II														
Total Non-Volatiles				12-20										
Solvent Type														
Paste														
Mineral Spirits				70-80		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 423 FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION)(Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Solid	20-30										
Wax (Carnauba, Candelilla, Sugar Cane, Ouricury or Synthetic)	6-10				X	X					CCD
Paraffin Wax or	10-20				X	X					Merck 8
Microcrystalline Wax }					X	X					CCD
Liquid											
Mineral Spirits	89-93		X								Merck 8
Carnauba Wax	2-4				X	X	X				CCD
Petroleum Wax	1-4				X	X			X		Merck 8
Synthetic Wax or	1-2										
Natural Wax }					X	X					CCD
Stearates	0.5-1				X	X	O				CCD
Dye	0.01-0.005					X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Perfume (see Furniture Polishes)	0.1-0.3		X		X	X	X		X		CCD K-0
may contain:											
Aluminum Soap or	}										
Barium Soap or					X						CCD
Calcium Soap											
Alcohol					0	0	X				CCD Heukelekian
Amyl Acetate			X								Toxic Sub
Beeswax					X	X	X				CCD Merck 8
Orthobenzylpara-chlorophenol			X								Toxic Sub
BHC (Gamma Isomer)			X								III-B Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Coloring							X						
Freons				X			O	X				CCD	
Hexachlorophene				X		X	X	O				CCD Merck 8 III-B	
Perfume				X		X	X	X		X		CCD K-O	
Pine Oil								X		X		CCD	
Polystyrene Copolymers							O					CCD	
Synthetic Resins													
Terpene Phenolic Resins													
Tung Oil Up to 30%				X			X					CCD	
Turpentine							X	X				CCD	

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dance Floor Wax											
Boric Acid Crystals			X		O	X	O				Hackh's Merck 8 Toxic Sub
Floor Cleaners											
Formula I											
Pine Oil	0-10						X		X		CCD
Fatty Acid Soap	5-30										
Synthetic Anionic or Nonionic Surfactant	0-20		X								III-B
Sodium Polyphosphates	0-15										
Amines	0-5										
Ammonia	0-5		X		O	O	X				Hackh's CCD Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2842 423 FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II											
Petroleum Solvents	85-100		X		X	O	X		X		CCD Merck 8
Waxes	4-12				X	X					CCD
Synthetic Nonionic Surfactant	0-10		X								III-B
may contain:											
Dyes (Trace)						X					CCD
Nitrobenzene			X	O	X	X					CCD Heukelekian
Perfumes (Trace)			X		X	X	X		X		CCD K-O
Sodium Perborate			X		O	X	O				CCD Merck 8
Sodium Metasilicate					O						Merck 8
Trisodium Phosphate					O	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 423	FLOOR POLISH: LIQUID (OTHER THAN WATER EMULSION) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Alkyl Aryl Sodium Sulfonate													
Carboxymethyl Cellulose					0	X	0	X	0				CCD Merck 8 Heukelekian
Glycol Ether													
Potassium Hydroxide					X		0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2842 442	SHOE POLISHES AND CLEANERS: LIQUID											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Shoe Polishes			Gleason									
Suede Polish												
Denatured Ethanol		25										CCD
Aniline Dye		0.5					X					
Silicones												CCD
Chlorinated Solvents (see Trichlorethane)				X		X						Merck 8
Perfume				X		X	X	X		X		CCD K-O
Propylene Oxide												
Propellant (Freon)				X			0	X				CCD
Acetic Acid				X			0	X				CCD
Plasticizer												

x - may be an effect
 o - no effect
 blank - no information

2842 442	SHOE POLISHES AND CLEANERS: LIQUID (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
White Shoe Polish													
Titanium Oxide			25		X		X	X					Merck 8
Emulsified Waxes			25										
Water			to 70										
may contain:													
Bentonite							X	X					CCD Merck 8
Casein						X	X	X	0				CCD Heukelekian
Ethylene Glycol					X	X							Merck 8 III-B Heukelekian
Gum Tragacanth and Other Resins							X		0				Merck 8
Isopropanol						X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 442	SHOE POLISHES AND CLEANERS: LIQUID (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Lanolin					X		X	X	X			Merck 8
Perfume					X		X	X	X		X	CCD K-0
Preservatives (Phenyl Mercuric Acetate)					X		X					Merck 8
Protein												
Soap												CCD
Starch						X	X	X				CCD Heukelekian
Zinc Oxide							X	X	0			CCD
Liquid Shoe Polishes												
Self-Polishing												
High Molecular Weight Synthetic Polymer			0-10									
Chlorinated Solvents												

x - may be an effect
 o - no effect
 blank - no information

2842 442 SHOE POLISHES AND CLEANERS: LIQUID (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Propellants (Freon)			X			0	X				CCD
Shellac	0-10		X		X	X					CCD
Wax	5				X	X					CCD
Stearic Acid	2				X	0	X				CCD
Dye or Pigment	trace					X					CCD
Phenyl Mercuric Acetate	trace		X		X						Merck 8
Water	85										
may contain:											
Borax			X		0	X					CCD Toxic Sub
Lanolin			X		X	X	X				Merck 8
Brush to Shine											
Alcohols	90-95			X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 442	SHOE POLISHES AND CLEANERS: LIQUID (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Waxes		5-10			X	X					CCD
may contain:											
Shellac			X		X	X					CCD Merck 8
Shoe Cleaners (see Also Saddle Soap under Leather Cleaners)											
For White Shoes:											
Titanium Dioxide			X		X	X					Merck 8
Trisodium Phosphate					0	X		X			Merck 8

x - may be an effect
o - no effect
blank - no information

2842 444	SHOE POLISHES AND CLEANERS: PASTE AND CAKE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Shoe Polishes		Gleason									
Paste											
Animal, Petroleum and Vegetable Waxes	30-50				X	X					CCD
Turpentine	10-20					X	X				CCD
Mineral Spirits	10-65		X								Merck 8
Aniline Dyestuffs or	0-3			0		X					Heukelekian
Nigrosine					0	X					CCD
Silicone Oil	0-2										CCD
may contain:											
Lanolin			X		X	X	X				Merck 8
Terpenes											

x - may be an effect
 o - no effect
 blank - no information

2842 465	LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Leather Polishes, Dressing		Gleason									
Vegetable Waxes	20				X	X					CCD
Turpentine	40					X	X				CCD
Amine-Oleate Soap	2										
may contain:											
Alcohol				X	O	O	X				CCD Heukelekian
Natural Resins					X	X					CCD
Neatsfoot Oil						X	X		X		CCD
Plasticizers											
Soya Oil						X			X		CCD
Sperm Oil						X			X		CCD
Propellant											
Methyl Polysiloxane											

x - may be an effect
 o - no effect
 blank - no information

2842 465	LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Stoddard Solvent													
Xylene					X	0	X						Merck 8
Leather Cleaners													Heukelekian
Saddle Soap													
Formula I													
Palm Oil			21-4					X			X		CCD
Rosin			1.8				X	X					CCD
Caustic Soda			11.4		X		0						Merck 8
Water			51.4										
Glycerine			7.7		X	X	0	X	0				CCD
Talc			0.3					X					Heukelekian
													Merck 8
													CCD

x - may be an effect
 o - no effect
 blank - no information

2842 465	LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:													
Cyclohexanol			3		X	X	X	0	X		X		CCD Heukelekian Toxic Sub
Wax			1.5				X	X					CCD
Formula II													
Powdered Soap			15										
Beeswax			8				X	X	X				CCD Merck 8
Neatsfoot Oil			5					X	X		X		CCD
Water			72										
Formula III													
Carnauba Wax			40.9				X	X	X				CCD
Soap Flakes			15.2										
Tallow			19.7										

x - may be an effect
 o - no effect
 blank - no information

2842 465	LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Turpentine		15.9					X	X				CCD
Sperm Oil		4.5					X			X		CCD
Water		3.8										
Formula IV												
Triethanolamine Oleate		3.8										
Alcohol		3.8			X	O	O	X				CCD Heukelekian
Potassium Carbonate		0.5				O	X					CCD
Water		q.s. 100										
Mineral Oil		45-55										
Formula V												
Nonionic Surfactant		45-55		X								III-B

x - may be an effect
 o - no effect
 blank - no information

2842 465 LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sulfonated Oils	20-30				0						CCD
Formula VI											
Mineral Spirits	35-40		X								Merck 8
Water	35-40										
Alkyl Aryl Sodium Sulfonate	7										
Formula VII											
Water	93										
may contain:											
Fatty Amide Condensate											
Isopropanol				X	0	0					CCD Heukelekian
Sodium Metasilicate					0						Merck 8
Ketones											

x - may be an effect
 o - no effect
 blank - no information

2842 465 LEATHER DRESSINGS AND FINISHES (EXCLUDING SHOE POLISH): OTHER LEATHER DRESSINGS AND FINISHES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Leather Polish											
Carnauba Wax					X	X	X				CCD
Animal Oil					O	X	X		X		CCD
Vegetable Oil									X		
Triethanolamine			X	X		X	X				CCD Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Metal Polishes			Gleason									
Formula I												
Petroleum Solvent (see Naphtha)		25-70		X		X	0	X		X		CCD Merck 8
Citric Acid		0.10- 0.15		X	X	0	X	0				CCD Toxic Sub Heukelekian
Abrasive		5-10										CCD
Triethanolamine Oleate		0.15- 0.20										
Ammonium Hydroxide		0.4-0.5		X			0	X				CCD Merck 8 III-B
Formula II												
Abrasive		20-30										CCD

x - may be an effect
 o - no effect
 blank - no information

2842 498 RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Oxalic Acid	2-3		X	X	0	0					CCD Merck 8 Heukelekian
Isopropanol	0-4			X	0	0					CCD Heukelekian
Fatty Acids	5-7										
Ammonia	3-6		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub III-B
Pine Oil	0-1						X		X		CCD
Water	to 100										
may contain:											
Alcohol				X	0	0	X				CCD Heukelekian
Alkyl Sodium Sulfates			X								III-B

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Bentonite						X	X					CCD Merck 8
Dye							X					CCD
Essential Oils					X	X	X	X		X		CCD, K-0
Kerosene						X						Heukelekian
Nitric Acid					X		0	X				Merck 8
Paraffin Oil (see Petrolatum, Liquid)						X	0	0		X		Merck 8
Paraffin Wax						X	X					Merck 8
Phenolic Derivative (Dowicide)												
Phosphoric Acid					X		0	0	0			CCD
Plasticizer												
Rosin							X	X				CCD
Soap												

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sulfuric Acid					X			0	0		X		Merck 8
Tergitol													
Tripoli					X		X	X					CCD Merck 8
Trisodium Phosphate							0	X		X			Merck 8
General Purpose Waxes													
Natural Waxes							X	X					CCD
Synthetic Waxes													
Fatty Acid Emulsifiers													CCD
Morpholine					X	X		0	X				CCD Heukelekian
Aliphatic Petroleum Solvents			5-80										
Aromatic Petroleum Solvents													
Orthobenzylparachlorophenol			0.1		X								Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:											
Alkali			X								CCD
Ammonia			X		O	O	X				CCD Hackh's Merck 8 Toxic Sub III-B
Alkyl Sodium Sulfate			X								III-B
Borax			X		O	X					CCD Toxic Sub
Burnt Umber (see Umber)						X					CCD
Essential Oils			X		X	X	X		X		CCD, K-0
Oil Dyes						X					
Shellac			X		X	X					CCD Merck 8
Silica			X		X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Silicone Turpentine Scratch Remover Polishes Petroleum Spirits Wood Stains (see 2851 137) Powdered Abrasives Petroleum Oils Vegetable Oils Lacquer Metallic Soaps Phenolic Preservative			X	X	O	O	X				CCD CCD Merck 8 CCD Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Porcelain and Metal Polishes												
Silica Abrasive				X		X	X					CCD Merck 8
Soda Soap												
Pine Oil		less than 1						X		X		CCD
Ammonium Hydroxide		less than 1		X			0	X				CCD Merck 8 III-B
Oxalates		less than 1										
Paste Waxes												
Carnauba Wax (or Synthetic Waxes)		5-40				X	X	X				CCD
Paraffin Microcrystalline Waxes or					X	X			CCD			
Petroleum Microcrystalline Waxes					X	X			CCD			
Mineral Spirits		60-80		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 498		RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.									
may contain:													
Alpha Pinene								0	X				CCD
Aluminum, Barium or Calcium Soap, (see Soap, Metallic)							X						CCD
Ammonia			less than 1		X		0	0	X				CCD Hackh's Merck 8 Toxic Sub III-B
Beeswax							X	X	X				Merck 8 CCD
Borax			less than 1		X		0	X					CCD Toxic Sub
Coloring								X					CCD
Fatty Acid Emulsifiers													CCD
Perfume					X		X	X	X				CCD, K-0
Stearic Acid							X	0	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2842 498 RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Synthetic Resins											
Turpentine						X	X				CCD
Silver Polish											
Formula I											
Denatured Ethanol or	20-99			X	O	O	X				CCD
Isopropanol				X	O	O					CCD
											Heukelekian
Diatomaceous Earth	15-20										CCD
Soap	3-4										
Perfume	0-0.13		X	X	X	X	X		X		CCD, K-0
Water	45-90										
Mercaptans	up to 5%										
may contain:											

x - may be an effect
 o - no effect
 blank - no information

2842 498 RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Alkyl Sodium Sulfates	0-0.5		X								III-B
Amine Soap											
Ammonia			X		0	0	X				CCD Hackh's Merck 8 Toxic Sub III-B
Camphor	1.5		X		X		X				Merck 8 Toxic Sub
Essential Oils			X		X	X	X		X		CCD, K-0
Fatty Acids											
Nonionic Surfactant	0.001		X								III-B
Pine Oil							X		X		CCD
Rhodamine B Dye					0	X					CCD
Sassafras	0-1					X	X		X		CCD
Silver Nitrate			X		0	X	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Thiosulfate			0-2				0						Merck 8
Stoddard Solvent			0-15										CCD
Sulfuric Acid					X			0	0		X		Merck 8
Phosphoric Acid			0-7		X		0	0	0				CCD
Thiourea							0	X					CCD
Formula II													
Phosphoric Acid			5-10		X		0	0	0				CCD
Sulfuric Acid			0-1		X			0	0		X		Merck 8
Thiourea			4-5				0	X					CCD
Mint			1										
Water			to 100										
may contain:													
Bentonite							X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Carboxymethylcellulose						X	O	X	O				CCD Merck 8 Heukelekian
Celite								X					CCD
Copper Sulfate					X		O	X					CCD Toxic Sub
Dowicide A													
Dye								X					
Essential Oils					X		X	X	X		X		CCD, K-0
Plasticizer													
Tergitol													
Titanium Dioxide					X		X	X					Merck 8
Stove Polishes (see Cleaners)													
Carbon Black					X		X	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2842 498	RELATED PRODUCTS INCLUDING METAL POLISH AND POLISHING CLOTHS AND PAPERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Graphite							X					CCD
Naphtha				X		X	0	X		X		CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 133	SHAVING SOAP AND CREAM: TUBE AND JAR										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Shaving Cream (Brushless Type):		Gleason									
Stearic Acid	25				X	O	X				CCD
Mineral Oil	10										CCD
Triethanolamine	0.5		X	X		X	X				CCD Merck 8 III-B Heukelekian
Borax	0.5		X		O	X					CCD Toxic Sub
Water	64										
Perfume	q.s.		X		X	X	X		X		CCD, K-0
may contain:											
Alcohol				X	O	O	X				CCD Heukelekian
Lard					X	X	X				CCD
Linseed Oil						X	X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2844 133	SHAVING SOAP AND CREAM: TUBE AND JAR (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Menthol				X		X		X				Merck 8
Phenol				X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Soap												
Sodium Alginate					X	0	X	X				Merck 8 CCD Heukelekian
Sodium Salicylate						0	X	0				Merck 8
Tallow												
Zinc Compounds												
Shaving Cream (Lather)												
Stearine Soap		30				X	0	0				CCD
Coconut Oil Soap		15					X	X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2844 133	SHAVING SOAP AND CREAM: TUBE AND JAR (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Glycerol		10		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Water		45										
Perfume		q.s.		X		X	X	X		X		CCD, K-0
may contain:												
Alcohol					X	0	0	X				CCD Heukelekian
Lard						X	X	X				CCD
Linseed Oil							X	X		X		CCD
Menthol				X		X		X				Merck 8
Phenol				X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 133	SHAVING SOAP AND CREAM: TUBE AND JAR (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Soap												CCD
Sodium Alginate					X	0	X	X				Merck 8 CCD Heukelekian
Sodium Salicylate						0	X	0				Merck 8
Tallow												
Zinc Compounds												

x - may be an effect
 o - no effect
 blank - no information

2844 156	AFTERSHAVE PREPARATIONS (ALL FORMS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.							
Shaving Lotions				Gleason							
Aftershave Lotion:											
Menthol	0.1		X		X		X				Merck 8
Camphor	0.1		X		X		X				Merck 8 Toxic Sub
Sorbitol	2				O	X	O				CCD
Hexachlorophene	0.1		X		X	X	O				CCD Merck 8 III-B
Perfume Oil	1		X		X	X	X		X		CCD, K-O
Alcohol	50			X	O	O	X				CCD Heukelekian
Water	46.7										
may contain:											
Bay Rum											

x - may be an effect
 o - no effect
 blank - no information

2844 156	AFTERSHAVE PREPARATIONS (ALL FORMS) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Benzalkonium Chloride			X		O	X	X				CCD Merck 8
Benzoic Acid			X	X	X	X					Hackh's CCD Merck 8 Toxic Sub Heukelekian
Bithionol					X	X	X				CCD Hackh's
Boric Acid			X		O	X	O				Merck 8 Hackh's Toxic Sub
Ethyl Paraminobenzoate (Benzocaine)			X		X	X	O				Hackh's CCD III-B
Glycerol			X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Jamaica Rum											

x - may be an effect
 o - no effect
 blank - no information

2844 156	AFTERSHAVE PREPARATIONS (ALL FORMS) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Aluminum Chlorhydroxy Allantoinate											
Potassium Alum					0	X	0				CCD Merck 8
Propylene Glycol			X			0	X				Merck 8 CCD III-B
Witch Hazel											
Zinc Phenolsulfonate					0		0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 159		OTHER SHAVING PREPARATIONS, INCLUDING PRESHAVE PREPARATIONS AND STYPTICS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Preshave Lotions, Astringent Type:			Gleason										
Aluminum Phenolsulfonate		2					0	X	X				Merck 8
Alcohol		55			X		0	0	X				CCD Heukelekian
Water		42.5											
Perfume		0.5			X		X	X	X		X		CCD, K-0
Preshave Lotions, Oily Type:													
Isopropyl Myristate }		25					X	0	0		X		CCD
Isopropyl Palmitate }							X						CCD
Alcohol		74.5			X	X	0	0	X				CCD Heukelekian
Perfume		0.5			X		X	X	X		X		CCD, K-0
may contain:													
Most of the ingredients listed under Aftershave Lotions													

x - may be an effect
 o - no effect
 blank - no information

2844 223		PERFUMES (LIQUID AND SOLID)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Perfumes:			Gleason										
Perfume	10-25			X		X	X	X			X		CCD, K-O
Alcohol	75-90				X	O	O	X					CCD Heukelekian
The perfume essence may contain as many as 50 or even more components from the classes of:													
Essential Oils (from leaves, needles, roots, peels)					X	X	X	X			X		CCD, K-O
Floral Oils (from petals or whole flowers)													
Gums						O							CCD
Resins						X	X						CCD
Balsams (tree exudates)						X	X	X					CCD
Animal Perfumery Materials:													
Musks									X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 223	PERFUMES (LIQUID AND SOLID) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ambergris					X	X	X				Merck 8
Isolates (individual components of natural oils and their chemical conversion products)											
Synthetics											
Stick Perfumes:											
Sodium Soap	11				O	X	X				CCD Merck 8
Benzyl Alcohol	15		X	X	X	O	X				Merck 8 Hackh's CCD Toxic Sub Heukelekian
Propylene Glycol	29		X		O	X					CCD Merck 8 III-B
Triethylene Glycol	34.8		X	X		O	O				Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 223	PERFUMES (LIQUID AND SOLID) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Brij 92 (Polyoxyethylene 2 Oleylether)	5										
Perfume Oil	5		X		X	X	X		X		CCD, K-0
Dye Solutions, q.s.	100				X						

x - may be an effect
 o - no effect
 blank - no information

2844 232	TOILET WATERS AND COLOGNES (LIQUID AND SOLID)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Toilet Waters and Colognes				Gleason								
Perfume			3-10		X	X	X	X		X		CCD, K-O
Alcohol (plus Water)			90-97			X	O	O	X			CCD Heukelekian
The perfume essence may contain as many as 50 or even more components from the classes of:												
See 2844 223												
Solid Colognes:												
Sodium Stearate			10				O	X	X			CCD Heukelekian
Sorbitol			5				O	X	O			CCD
Cologne Essence			2		X		X	X	X	X		CCD, K-O
Alcohol			80			X	O	O	X			CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 232 TOILET WATERS AND COLOGNES (LIQUID AND SOLID) (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Water	3										
Gel Colognes:											
Alcohol 40	60-70			X	O	O	X				CCD Heukelekian
Perfume Oils	3-5		X		X	X	X		X		CCD, K-O
Carbopol 640	0.5-0.8		X		O						CCD Toxic Sub
Diisopropanolamine	0.4-0.6				X						CCD
Water	23.4- 36.1										

x - may be an effect
 o - no effect
 blank - no information

2844 313	SHAMPOOS, INCLUDING PRODUCTS WITH ADDITIVES FOR TINTS, COLORING, OR DANDRUFF REMOVAL: SOAP (ALL FORMS)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Soap Shampoos:				Gleason									
Coconut Oil Soap			25					X	X		X		CCD
Olive Oil Soap			5					X			X		Merck 8
Alcohol			15			X	0	0	X				CCD Heukelekian
Glycerol			5		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Water			50										
Soapless Shampoo, Cream Type:													
Sodium Lauryl Sulfate			50				0	X	X				CCD Merck 8
Sodium Stearate			10				0	X	X				Merck 8 CCD
Water			40										

x - may be an effect
 o - no effect
 blank - no information

2844 313	SHAMPOOS, INCLUDING PRODUCTS WITH ADDITIVES FOR TINTS, COLORING, OR DANDRUFF REMOVAL: SOAP (ALL FORMS) (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Soapless Shampoo, Liquid Type:												
Triethanolamine Dodecyl Sulfate		40										
Ethanolamide of Lauric Acid		15										
Water		45										
Shampoos may contain:												
Antibacterials (Hexachlorophene)				X		X	X	0				CCD Merck 8 III-B
Cholesterol					X	X	0					Merck 8 CCD
Egg Powder												
Ethylene Diamine Tetraacetic Acid				X	X	X	0					CCD III-B Heukelekian
Lanolin						X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 313 SHAMPOOS, INCLUDING PRODUCTS WITH ADDITIVES FOR TINTS, COLORING, OR DANDRUFF REMOVAL: SOAP (ALL FORMS) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Nonionic Surfactants ("Tweens")		X								III-B
Other Anionic Surfactants ("Tergitols")		X								III-B
Perfume		X		X	X	X		X		CCD, K-O
Polyols										
Preservatives (Parahydroxybenzoates)										
Sodium Hexametaphosphate										
Tars				X	X	X				CCD
Trisodium Phosphate				O	X		X			Merck 8
Vegetable Gum			X	O	X	X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 321 HAIR TONICS, INCLUDING HAIR AND SCALP CONDITIONERS		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Tonics:		Gleason									
Resorcinol Monoacetate (Euresol)	3.0				X	X	X		X		CCD Merck 8
Tincture of Capsicum	5.0					X					CCD
Mixed Essential Oils (Bay, Cloves, Cinnamon Leaf)	0.5		X		X	X	X		X		CCD, K-0
Alcohol	75			X	O	O	X				CCD Heukelekian
may contain:											
Benzalkonium Chloride			X		O	X	X				CCD Merck 8
Beta-Naphthol			X	X	X	X	X				CCD Merck 8 III-B Heukelekian
Bithionol					X	X	X				CCD Hackh's

x - may be an effect
 o - no effect
 blank - no information

2844 321 HAIR TONICS, INCLUDING HAIR AND SCALP CONDITIONERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Camphor		X		X		X				Merck 8 Toxic Sub
Cantharides Tincture		X								CCD
Chloral Hydrate		X		O	O	X				CCD Merck 8 Toxic Sub III-B
Hexachlorophene		X		X	X	O				CCD Merck 8 III-B
Menthol		X		X		X				Merck 8
Parachlorometaxylenol		X		X		X				Merck 8
Perfume		X		X	X	X		X		CCD, K-0
Phosphoric Acid		X		O	O	O				CCD
Pilocarpine		X		O	X			X		CCD
Polyalkylene Glycols										

x - may be an effect
 o - no effect
 blank - no information

2844 321	HAIR TONICS, INCLUDING HAIR AND SCALP CONDITIONERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Quinine			X		X	X	O				CCD Merck 8
Resorcinol			X	X	O	X					Merck 8 Heukelekian
Sorbitan Derivative (e.g., see Sorbitan Fatty Acid Esters)					X	X	X				CCD Gleason
Salicylic Acid			X	X	X	X					Merck 8 Heukelekian
Tars					X	X	X				CCD
Thymol			X		O	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 336	PERMANENT COLD WAVE SOLUTIONS, NEUTRALIZERS, AND RINSES: HOME WAVE KITS (COMPLETE AND REFILL)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Permanent Waves (Cold Waves)											
Waving Lotion:											
Thioglycolic Acid	5.7	Gleason	X				X				Merck 8
Ammonia	2.0		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub III-B
Water	93.3										
may contain:											
Borax			X		0	X					CCD Toxic Sub
Ethanolamine			X	X		0	X				CCD Merck 8 III-B Heukelekian
Sodium Lauryl Sulfate					0	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 336	PERMANENT COLD WAVE SOLUTIONS, NEUTRALIZERS, AND RINSES: HOME WAVE KITS (COMPLETE AND REFILL) (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Neutralizer: may contain:											
Sodium Bromate			X		0	X	0				Merck 8
Potassium Bromate			X		0	X					CCD Merck 8
Sodium Perborate			X		0	X	0				CCD Merck 8
Hydrogen Peroxide					0	0					CCD

x - may be an effect
 o - no effect
 blank - no information

2844 341	HAIR DRESSINGS, INCLUDING BRILLIANTINES, CREAMS, AND POMADES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Brilliantines and Hair Dressings											
Cream Type Dressing:											
Mineral Oil		25									
Beeswax		5			X	X	X				Merck 8 CCD
Triethanolamine Stearate		5									
Water		65									
Liquid Brilliantine:											
Mineral Oil		75									
Isopropyl Myristate		25			X	0	0		X		CCD
Solid Brilliantine:											
Mineral Oil		50									
Petrolatum		40									
Paraffin		10			X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 341	HAIR DRESSINGS, INCLUDING BRILLIANTINES, CREAMS, AND POMADES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
"Two-Layer" Dressings:												
Mineral Oil		25										
Alcohol		25			X	O	O	X				CCD Heukelekian
Water		50										
Brilliantines and Hair Dressings may contain:												
Antiseptics (e.g., Hexachloro- phene)				X		X	X	O				CCD Merck 8 III-B
Cetyl Alcohol						X	X	X				CCD
Cholesterol						X	X	O				CCD Merck 8
Gums (e.g., Tragacanth)						X		O				Merck 8
Lanolin				X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 341	HAIR DRESSINGS, INCLUDING BRILLIANTINES, CREAMS, AND POMADES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Oil of Bergamot									X		Merck 8
Olive Oil (and other Vegetable Oils)						X			X		
Synthetic Oils (e.g., Butyl Stearate)					X	0	0				CCD Merck 8
Synthetic Thickeners											CCD
Tars					X	X	X				

x - may be an effect
 o - no effect
 blank - no information

2844 351	HAIR COLORING PREPARATIONS (BLEACHES, DYES, RINSES, TINTS, ETC.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Dyes, Tints				Gleason									
Metallic Type (two bottles)													
Bottle 1. Silver Nitrate			10		X		0	X	X				Merck 8
Ammonia (10%)			30		X		0	0	X				Hackh's CCD Merck 8 Toxic Sub III-B
Water			60										
Bottle 2. Pyrogallol			5		X	X	0	X	0				Merck 8 Heukelekian
Water			95										
Other Metal Based Hair Colorings may contain:													
Acetic Acid					X			0	X				CCD
Bismuth Acetate							0	X					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2844 351	HAIR COLORING PREPARATIONS (BLEACHES, DYES, RINSES, TINTS, ETC.) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Cadmium Chloride					X		0	X					Hackh's Merck 8 Toxic Sub III-B
Cobalt Chloride					X		0	X					Merck 8 Toxic Sub III-B
Cupric Chloride (see Copper Chloride)					X		0	X					Merck 8 CCD Toxic Sub
Ferric Chloride					X		0	X				X	Merck 8 III-B
Lead Acetate					X		0	X	X				Merck 8 III-B
Manganese Sulfate							0	X					Merck 8
Nickel Sulfate					X		0	X					Merck 8 III-B
Sodium Sulfite							0						Merck 8

x - may be an effect

o - no effect

blank - no information

2844 351		HAIR COLORING PREPARATIONS (BLEACHES, DYES, RINSES, TINTS, ETC.) (Cont'd)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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x - may be an effect
 o - no effect
 blank - no information

2844 351	HAIR COLORING PREPARATIONS (BLEACHES, DYES, RINSES, TINTS, ETC.) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
2,4-Diaminoanisol													
2,4-Diaminophenol					X								Merck 8 Toxic Sub
4-Nitroorthophenylenediamine							X	X					Merck 8
2-Nitroparaphenylenediamine													
Pyrogallol					X	X	O	X	O				Merck 8 Heukelekian
Sodium Sulfite							O						Merck 8
Paratoluylenediamine													
Rinses, Color:													
Color (not oxidation type dyes)			trace - 2.0					X					
Detergents			trace - 5.0										
Perfume			trace		X		X	X	X		X		CCD K-O

x - may be an effect
 o - no effect
 blank - no information

2844 351		HAIR COLORING PREPARATIONS (BLEACHES, DYES, RINSES, TINTS, ETC.) (Cont'd)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water		balance										
Color Rinses may contain:												
Fatty Acid Alcohols or Amides												CCD
Borax		0.3		X		0	X					CCD Toxic Sub
Glycols		up to 16.6%					0					Hackh's
Thickening Agents		trace										
Isopropanol		up to 5.0			X	0	0					Heukelekian CCD

x - may be an effect
 o - no effect
 blank - no information

2844 363	WAVE SET PREPARATIONS: LIQUID HAIR SPRAY										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lacquers and Wave Sets:		Gleason									
Polyvinyl Pyrrolidone (PVP)	2.5				0	X					CCD
Alcohol	20			X	0	0	X				CCD Heukelekian
Sorbitol	5				0	X	0				CCD
Water	72.5										
may contain:											
Lanolin (also Isolates or Derivatives)			X		X	X	0				Merck 8
Perfume			X		X	X	X		X		CCD, K-0
Shellac			X		X	X					CCD Merck 8
Silicone											
Sodium Alginate				X	0	X	X				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 363	WAVE SET PREPARATIONS: LIQUID HAIR SPRAY (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Vegetable Gums												
Acacia						X		0				Merck 8
Tragacanth						0	X	0				CCD
Hair Spray, Pressurized:												
Lacquers and Wave Sets (see above)		50										
Propellant (usually Freon 11 and 12)		50		X			X	X				CCD

x - may be an effect
o - no effect
blank - no information

2844 398		OTHER HAIR PREPARATIONS, INCLUDING HEAT SETTING WAVE SOLUTIONS																							
TYPICAL CHEMICAL COMPOSITION				%		REF.		TOXICITY		OXYGEN DEMAND		SOLIDS		COLOR		ODOR		EUTROPHICATION		OILS AND TARS		HARDNESS		REF.	
Straighteners:						Gleason																			
Polyethylene Glycol 6000				2.1				X		X		O		X										Merck 8 III-B Heukelekian	
Cetyl Alcohol				13.0								X		X		X								CCD	
Stearyl Alcohol				8.6				X				X		X		X								CCD Merck 8	
Triethanolamine Lauryl Sulfate				1.1																				CCD	
Propylene Glycol				16.0				X						O		X								CCD Merck 8 III-B	
Ammonium Thioglycolate (53%)				10.5																				CCD	
Ammonium Hydroxide (28%)				3.3				X						O		X								CCD Merck 8 III-B	
Perfume				2.0				X				X		X		X				X				CCD, K-0	
Water				43.4																					

x - may be an effect
 o - no effect
 blank - no information

2844 4	DENTIFRICES, INCLUDING MOUTH WASHES, GARGLES AND RINSES, TOTAL		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Liquid Dentifrices		Gleason									
Sodium Alginate	0.8			X	O	X	X				CCD, Merck 8 Heukelekian
Saccharin Sodium	0.1				O	X	X				CCD, Merck 8
Flavor	1.5										
Alcohol	20			X	O	O	X				CCD, Heukelekian
Glycerin	8		X	X	O	X	O				CCD, Merck 8, III-B, Heukelekian
Sodium Lauryl Sulfate	4				O	X	X				CCD, Merck 8
Amaranth Solution (5%)	0.2		X		O	X					CCD, Merck 8, III-B
Water, q.s.	100										

x - may be an effect
 o - no effect
 blank - no information

2844 4	DENTIFRICES, INCLUDING MOUTH WASHES, GARGLES AND RINSES, TOTAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
may contain:											
Aluminum Hydrate					X	X	0				Hackh's, CCD
Ammonium Phosphate, Dibasic					0	X	0				Hackh's, CCD, Merck 8
Calcium Carbonate					X	X	0			X	CCD
Calcium Pyrophosphate					X	X					CCD, Merck 8
Calcium Sulfate					X	X	0				CCD
Chlorophyllin (Extra)						X	X				CCD, Toxic Sub
Chlorothymol					X	X	X				CCD, Merck 8
Dioctyl Sodium Sulfosuccinate			X		0						Merck 8
Eucalyptol			X		X	0	X				Merck 8
Gum Karaya			X		X	X	X				CCD, Merck 8
Hexachlorophene			X		X	X	0				CCD, Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2844 4	DENTIFRICES, INCLUDING MOUTH WASHES, GARGLES AND RINSES, TOTAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Parahydroxybenzoate					O	X					CCD
Irish Moss					X	X					Merck 8
Magnesium Carbonate					X	X	O				Merck 8
Magnesium Oxide			X		X	X					Merck 8
Magnesium Phosphate (Tri-)					X	X					Merck 8
Menthol			X		X	X	X				Merck 8, CCD
Methylcellulose			X	X	O	X					CCD, Merck, 8, Heukelekian
Anise Oil						O	X		X		CCD
Caraway Oil					X	X	X		X		CCD
Oil of Cinnamon					X	X	X		X		Merck 8
Oil of Cloves						X	X		X		CCD
Oil of Eucalyptus					X	X	X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2844 4		DENTIFRICES, INCLUDING MOUTH WASHES, GARGLES AND RINSES, TOTAL (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Oil of Peppermint							X	X		X		CCD	
Oil of Spearmint										X			
Thyme Oil						X	X	X		X		CCD	
Oil of Wintergreen (Methyl Salicylate)				X		X	X	X		X		CCD, Merck 8	
Potassium Chlorate				X		0	X					CCD, Merck 8	
Soap													
Sodium Alginate					X	0	X	X				CCD, Merck 8, Heukelekian	
Sodium Benzoate				X	X	0	X	0				Merck 8, Heukelekian	
Sodium Bicarbonate				X		0	X					Merck 8	
Sodium Carboxymethylcellulose				0	X	0	X	0				CCD, Merck 8, Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2844 4	DENTIFRICES, INCLUDING MOUTH WASHES, GARGLES AND RINSES, TOTAL (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Cyclamate					0	X					Hackh's
Sodium Fluoride (0.1% as Fluoride)			X		0	X					CCD, Merck 8, III-B
Sodium N-lauroyl Sarcosinate					0	0					CCD
Sorbitol					0	X	0				CCD
Stannous Fluoride (0.1% as Fluoride)					X	X					CCD, Merck 8
Thymol			X		X	X	X				CCD, Merck 8
Urea (Carbamide)					0	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 411 TOOTHPASTE, INCLUDING AEROSOLS		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dicalcium Phosphate	40				X	X	0				Merck 8 CCD
Sodium Lauryl Sulfate	1.5				0	X	X				CCD Merck 8
Glycerol	20		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Gum Tragacanth	1.5				X		0				Merck 8
Saccharin	0.1				0						Merck 8
Flavoring	0.9										
Water	36										

x - may be an effect
 o - no effect
 blank - no information

2844 411	TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula I		Jellinek									
Precipitated Chalk, Super Fine	15		X		X	X	0				Merck 8
Colloidal Kaolin	9				X	X	X				CCD
Glycerol	21.75		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Ethyl Alcohol	0.15			X	0	0	X				CCD Heukelekian
Water, dist.	23.5										
Gum Tragacanth	0.075				X		0				Merck 8
Tallow Soap, Pure	9										
Saccharin Sodium	0.0075				0	X	X				CCD Merck 8
Flavoring	2.25										

x - may be an effect
 o - no effect
 blank - no information

2844 411	TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Formula II												
Precipitated Chalk, Super Fine		34		X		X	X	0				Merck 8
Tricalcium Phosphate		12				X	X	0				CCD Merck 8
Glycerol		24.5		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Ethyl Alcohol		5		X	X	0	0	X				CCD Heukelekian
Water, dist.		18.8										
Gum Tragacanth		1				X		0				Merck 8
Tallow Soap, Pure		4.1										
Saccharin Sodium		0.1				0	X	X				CCD Merck 8
Flavoring		0.5										

x - may be an effect
 o - no effect
 blank - no information

2844 411	TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula III											
Precipitated Chalk, Super Fine	30		X		X	X	0				Merck 8
Magnesium Carbonate, Very Light	3				X	X					Merck 8
Magnesium Hydroxide	4.5		X		X	X					Merck 8
Glycerol	58.8		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Tallow Soap, Pure	1										
Sodium Lauryl Sulfate	0.7					X	X				CCD
Flavoring	3.0										
Formula IV											
Precipitated Chalk, Super Fine	24		X		X	X	0				Merck 8
Dicalcium Phosphate (see Calcium Phosphate, Dibasic)	9				X	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 411		TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Magnesium Silicate		18		X									Merck 8
Glycerol		32		X	X	O	X	O					CCD Merck 8 III-B Heukelekian
Water, dist.		13.72											
Gum Tragacanth		0.28				X		O					Merck 8
Tallow Soap, Pure		3.0											
Formula V													
Dicalcium Phosphate		51.8					X	X	O				CCD Merck 8
Glycerol		45						X	O				CCD
Carbopol C-934		0.5		X									CCD Toxic Sub
Sodium Lauryl Sulfate		1.8				O	X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 411	TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Flavoring		0.9										
Formula VI												
Dicalcium Phosphate		51.45			X	X						CCD Merck 8
Glycerol		10	X	X	O	X		O				CCD Merck 8 III-B Heukelekian
Propylene Glycol		20	X				O	X				Merck 8 CCD III-B
Water, dist.		14										
Sodium Carboxymethyl Cellulose, High Viscosity		0.8		X	O	X		O				CCD Merck 8 Heukelekian
Saccharose Monopalmitate		2.5										
Mineral Oil		1.0										

x - may be an effect
 o - no effect
 blank - no information

2844 411	TOOTHPASTE, INCLUDING AEROSOLS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Saccharin Sodium		0.05				O	X	X				CCD Merck 8
Flavoring		1										
Methylparahydroxy Benzoate		0.2				X	X	X				Merck 8 CCD

x - may be an effect
 o - no effect
 blank - no information

2844 431	TOOTHPOWDERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula I		Jellinek									
Tricalcium Phosphate	50				X	X	O				CCD Merck 8
Sodium Metaphosphate (Insoluble)	46										
Sodium Lauryl Sulfoacetate	2				O	X	X				CCD
Saccharin	0.2				O						Merck 8
Flavor Oils	1.8										
Formula II											
Precipitated Chalk, Medium Weight	92.09		X		X	X	O				Merck 8
Titanium Dioxide	2		X		X	X					Merck 8
Sodium Lauryl Sarcoside	2.97										
Sodium Alginate	1.90			X	O	X	X				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 431	TOOTHPOWDERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fragrances	1		X		X	X	X		X		CCD, K-0
Saccharine	0.13				0						Merck 8
Formula III											
Precipitated Chalk, Medium Weight	63.66		X		X	X	0				Merck 8
Calcium Sulfate Extra	31.36				X	X	0				CCD
Soap Powder	3.44										
Gum Tragacanth	1.42				X		0				Merck 8
Fragrances	1		X		X	X	X		X		CCD, K-0
Saccharine	0.12				0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 431		TOOTHPOWDERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Formula IV													
Dicalcium Phosphate		61.13					X	X	0				CCD Merck 8
Tricalcium Phosphate		33.00					X	X	0				CCD Merck 8
Soap Powder		3.25											
Gum Tragacanth		1.5					X		0				Merck 8
Fragrances		1			X		X	X	X		X		CCD, K-0
Saccharine		0.12					0						Merck 8
Formula V													
Tricalcium Phosphate		7					X	X	0				CCD Merck 8
Sodium Metaphosphate, Insoluble		89.5											
Sodium Lauryl Sulfate		1.5					0	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 431	TOOTHPOWDERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Fragrances		1.9		X		X	X	X		X		CCD K-O
Saccharine		0.1				0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 451	DENTURE CLEANERS												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Sodium Perborate		32.4		X		X	X	0				CCD Merck 8	
Sodium Chloride		60		X		0	X					Merck 8 III-B	
Magnesium Sulfate		2.5				0	X				X	Hackh's	
Calcium Chloride		2.5		X								Toxic Sub	
Sodium Carbonate		2.5											
may contain:													
Trisodium Phosphate						0	X		X			Merck 8	

x - may be an effect
 o - no effect
 blank - no information

2844 471	MOUTHWASHES, RINSES, AND BREATH SWEETENERS EXCLUDING ANTISEPTIC MOUTHWASHES AND GARGLES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Mouthwashes				Gleason									
Alkaline Mouthwash:													
Sodium Bicarbonate			2.0		X		O	X					Merck 8
Sodium Chloride			0.5		X		O	X					Merck 8 III-B
Sodium Cyclamate			0.5				O	X					Hackh's
Flavor Oils, Mixed			0.3										
Alcohol			25.0			X	O	O	X				CCD Heukelekian
Water			72.5										
Color certified			q.s.					X					CCD
Astringent Mouthwash:													
Zinc Chloride			0.2		X		O	X	O				Gleason Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2844 471		MOUTHWASHES, RINSES, AND BREATH SWEETENERS EXCLUDING ANTISEPTIC MOUTHWASHES AND GARGLES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Saccharine Sodium		0.1					0	X	X				CCD Merck 8
Flavor Oils, Mixed		0.2											
Alcohol		25.0			X	0	0	X					CCD Heukelekian
Water		74.5											
Color, Certified		q.s.						X					CCD
Mouthwashes may contain:													
Ammonium Phosphate (Dibasic)							0	X	0				Hackh's CCD Merck 8
Benzalkonium Chloride					X		0	X	X				CCD Merck 8
Benzoic Acid					X	X	X	X					Hackh's CCD Merck 8 Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 471	MOUTHWASHES, RINSES, AND BREATH SWEETENERS EXCLUDING ANTISEPTIC MOUTHWASHES AND GARGLES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Boric Acid				X		0	X	0				Merck 8 Hackh's Toxic Sub
Cetyl Pyridinium Chloride				X		0	X	X				CCD Merck 8 Toxic Sub III-B
Chlorophyllin				X			X	X				CCD Toxic Sub
Decamethylene-bis-(4-aminoquinaldinium Acetate)												CCD
Glycerol				X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Hexyl Resorcinol						X	X	X				CCD
Propylene Glycol				X			0	X				CCD Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2844 471 MOUTHWASHES, RINSES, AND BREATH SWEETENERS EXCLUDING ANTISEPTIC MOUTHWASHES AND GARGLES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Sorbitol					0	X	0				CCD
Urea (Carbamide)					0	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 498	OTHER ORAL HYGIENE PRODUCTS, INCLUDING DENTAL FLOSS AND DENTAL ADHESIVES, EXCLUDING TOOTHBRUSHES AND TOOTHPICKS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Denture Adhesives				Gleason									
Dental Adhesive Powders:													
Karaya Based Formula													
Gum Karaya			99-100		X		X	X	X				CCD Merck 8
Flavor													
Peppermint or			0-1				X	X			X		CCD
Spearmint or													
Wintergreen					X		X	X	X		X		CCD Merck 8
Karaya Borax Formula													
Gum Karaya			90-99		X		X	X	X				CCD Merck 8
Sodium Borate			1-10		X		0	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 498 OTHER ORAL HYGIENE PRODUCTS, INCLUDING DENTAL FLOSS AND DENTAL ADHESIVES, EXCLUDING TOOTHBRUSHES AND TOOTHPICKS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Flavor may contain: Magnesium Hydroxide (or Oxide)	0-1		X		X	X					Merck 8
Formula III Pectin	2-20				O	X	O				Merck 8
Gelatin	5-20			X	O	X	O				Heukelekian CCD
Carboxymethylcellulose	30-70			X	O	X	O				CCD Merck 8 Heukelekian
Flavor Formula IV	0-1										
Carboxymethylcellulose (see Sodium)	30-70			X	O	X	O				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 498 OTHER ORAL HYGIENE PRODUCTS, INCLUDING DENTAL FLOSS AND DENTAL ADHESIVES, EXCLUDING TOOTHBRUSHES AND TOOTHPICKS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Hydroxyethylcellulose	30-70				0	X					CCD
Flavor	0-1										

x - may be an effect
 o - no effect
 blank - no information

2844 511	CLEANSING CREAMS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Cold Cream Type:				Gleason								
Mineral Oil, Light			50									
Beeswax			17			X	X	X				CCD Merck 8
Borax			1		X	O	X					CCD Toxic Sub
Water			32									
may contain:												
Alcohol					X	O	O	X				CCD Heukelekian Lamb
Alkanolamines Monoethanol Amines or					X	X	O	X				Heukelekian Lamb III-B CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 511	CLEANSING CREAMS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Diethanolamines or				X	X		0	X				Merck 8 Hackh's Lamb III-B
Triethanolamines				X	X		X	X				CCD Merck 8 Heukelekian Lamb III-B
Allantoin						0	X	0				Hackh's CCD Merck 8
Antibacterials and Preservatives (Hexachlorophene or				X		X	X	0				CCD Merck 8 III-B
Bithionol or						X	X	X				Hackh's CCD
Methyl or						X	X	X				CCD Merck 8
Propyl Parabens)						X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 511	CLEANSING CREAMS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
(Cetyl Alcohol or						X	X	X				CCD
Stearyl Alcohol or			X			X	X	X				CCD Merck 8
Oleyl Alcohol)						X	X			X		Merck 8
Lanolin, Its Isolates and Derivatives			X			X	X	X				Merck 8
Perfume			X			X	X	X		X		CCD, K-0
Polyols (Glycerol or			X	X	0	X	0					CCD Merck 8 Heukelekian III-B
Propylene Glycol)			X	X				0				CCD Merck 8 III-B Lamb
Synthetic Fatty Oils: Isopropyl Myristate or						X	0	0				CCD
Isopropyl Palmitate or						X						CCD

x - may be an effect
 o - no effect
 blank - no information

2844 511	CLEANSING CREAMS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Diglycol Laurate			0			X	0		X		CCD
Thickeners (Stearic Acid or					0	0	X				CCD
Glyceryl Monostearate)						X	X				CCD
Waxes (Beeswax or					X	X	X				Merck 8 CCD
Spermaceti)					X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 512	FOUNDATION CREAMS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Foundation (Vanishing) Cream				Gleason								
Stearic Acid			15			0	0	X				CCD
Arlacel 60			2									
Tween 60			1.5			0	X	X				CCD
d-Sorbitol (70%)			7.5			0	X	0				CCD
Water			74									

x - may be an effect
 o - no effect
 blank - no information

2844 513	LUBRICATION CREAMS, INCLUDING HORMONE CREAMS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Hormone Creams:		Gleason									
Estrogens											CCD
Progesterones					X	X	O				CCD
Conditioning (Emollient) Creams											
Conditioning Cream, Anhydrous:											
Lanolin	70		X		X	X	X				Merck 8
Petrolatum	18										
Oil of Sweet Almond	12				X	X	O				CCD
Conditioning Cream, Emulsified:											
Lanolin	25		X		X	X	X				Merck 8
Lanolin Alcohols	15										
Mineral Oil	25										
Water	35										

x - may be an effect
 o - no effect
 blank - no information

2844 513 LUBRICATION CREAMS, INCLUDING HORMONE CREAMS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Conditioning Cream, Anionic:											
Stearyl Alcohol	25		X		X	X	X				CCD Merck 8
Petrolatum	25										
Propylene Glycol	12		X	X		0	X				CCD Merck 8 Lamb III-B
Sodium Lauryl Sulfate	1				0	X	X				CCD Merck 8
Water	37										
Conditioning Cream ("Moisturizing") Nonionic:											
Mineral Oil	20										
Stearic Acid	15				X	0	0				
Lanolin	5		X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 513	LUBRICATION CREAMS, INCLUDING HORMONE CREAMS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Beeswax		2			X	X	X				CCD Merck 8
d-Sorbitol (70%)		13			0	X	0				CCD
Arlacel 85		1									
Tween 85		1									
Water		43									
may contain:											
Olive Oil						X			X		Merck 8
Coconut Oil											
Corn Oil											
Peach Kernel Oil											
Peanut Oil											
Sesame Oil					X	X	X				Merck 8
Cocoa Butter					X	X	X				CCD

x - may be an effect
o - no effect
blank - no information

2844 513	LUBRICATION CREAMS, INCLUDING HORMONE CREAMS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lard							X	X	X				CCD
Butyl Stearate or							X	O	X				CCD Merck 8
Diglycol Laurate					O			X	X		X		CCD
Paraffin Wax							X	X					Merck 8
Ozokerite Wax							X	X					CCD
Microcrystalline Wax							X	X					CCD
Waxes (Beeswax or							X	X	X				CCD Merck 8
Spermaceti)							X	X	X				CCD
Fatty Alcohols (Cetyl or							X	X	X				CCD
Stearyl or					X		X	X	X				CCD Merck 8
Oleyl)							X	X			X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 513	LUBRICATION CREAMS, INCLUDING HORMONE CREAMS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lanolin Isolates and Derivatives					X		X	X	X				Merck 8
Anionic, Cationic and Non-ionic Emulsifiers													
Polyols (Propylene Glycol or					X	X		O	X				CCD Merck 8 Lamb III-B
Glycerol or					X	X	O	X	O				CCD Merck 8 Heukelekian III-B
Sorbitol)							O	X	O				CCD
Synthetic Esters (Glyceryl Monostearate or								X	X				CCD
Polyethylene Glycol Stearates)													
Parabens or													

x - may be an effect
 o - no effect
 blank - no information

2844 513	LUBRICATION CREAMS, INCLUDING HORMONE CREAMS (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Tocopherol or Alkyl Gallates Antibacterials (Hexachloro- phene or Bithionol Menthol or Camphor			X X X	 X X	X X X	X X 	0 X X			CCD Merck 8 III-B Hackh's CCD Merck 8 CCD Merck 8 Toxic Sub	

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Baby Cream:				Gleason									
Mineral Oil, Light			15										
Petrolatum			5										
Amerchol L101			15										
Mineral Wax, Microcryst (175°F)			10				X	X					CCD
Glycerol Monostearate			5					X	X				CCD
Methyl or			0.2				X	X	X				CCD
Propyl Parabens							X	X					Merck 8
Water			49.8										
may contain:													
Beeswax							X	X	X				CCD
Hydrogenated Fatty Oils													Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Spermaceti Bleach and Freckle Creams: Vanishing Cream Base (Stearate Types) may contain: See 2834 6, Bleach and Freckle Ointments Hand Creams: Composition of Hand Cream Generally Resembles That of Foundation (Vanishing) Cream, see 2844 512. Liquefying Creams: Paraffin White Wax Liquid Petrolatum Sodium Borate	6 12 54 1				X	X	X				CCD Merck 8 CCD CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Water	26										
Stearic Acid	1				X	O	X				CCD
Vitamin Creams:											
Cod Liver Oil	20					X	X		X		CCD
Lanolin, Anhydrous	30		X		X	X	X				Merck 8
Petrolatum	50										
Barrier Creams (Protective)											
Formula I											
Stearic Acid	10				X	O	X				CCD
Beeswax	1.5				X	X	X				CCD Merck 8
Glycerin	5		X	X	O	X	O				CCD Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Casein	0.3			X	X	X	O					CCD Heukelekian
Ammonium Hydroxide	0.5		X				O	X				CCD Merck 8 III-B
Water, q.s.	100											
Formula II												
Zinc Oxide	10					X	X	O				CCD
Zinc Stearate	5		X			X		X				Merck 8
Titanium Dioxide	10		X			X	X					Merck 8
Butyl Stearate	5					X	O	X				CCD Merck 8
Liquid Petrolatum	10											
White Petrolatum	60											

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula III											
Silicone, High Viscosity	25										
White Petrolatum	75										
Formula IV											
Polyethylene Glycol 1540 Mono-stearate	5										
Butyl Stearate	5				X	O	X				CCD Merck 8
Petrolatum	3										
Diglycol Stearate (Neutral)	4					X	X				CCD
Paraffin	3				X	X					Merck 8
Potassium Hydroxide	7		X		O	X					CCD
Magnesium Stearate	15				X	X	O				CCD
Water	58										

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.							
may contain:												
Aluminum Compounds												
Triethanolamine					X	X		X				CCD Merck 8 Heukelekian Lamb III-B
Benzoic Acid					X	X	X	X				Merck 8 CCD Toxic Sub Heukelekian
Talc							X					CCD
Borates												
Calamine						X	X	O				CCD
Ceresin						X	X	X				Merck 8 CCD

x - may be an effect
 o - no effect
 blank - no information

2844 514	OTHER CREAMS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Lanolin				X		X	X	X				Merck 8
Salicylates												
Sodium Silicate												

x - may be an effect
 o - no effect
 blank - no information

2844 515 LOTIONS AND OILS (EXCLUDING HAIR, AFTERSHAVE, AND BATH): SUNTAN, INCLUDING OILS		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Suntan Cream (Emulsion):		Gleason									
Monoglyceryl Para-aminobenzoate	3				X		X				Merck 8
Mineral Oil	25										
Sorbitan Monostearate	4		0		X						Gleason CCD
Polyoxyethylene Sorbitan Monostearate	6				0	X	X		X		CCD
Water	62										
Suntan Lotion (Alcoholic):											
Methyl Anthranilate	5				X	X	X				CCD
Propylene Glycol Ricinoleate	10										
Glycerol	10		X	X	0	X	0				CCD Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 515		LOTIONS AND OILS (EXCLUDING HAIR, AFTERSHAVE, AND BATH): SUNTAN, INCLUDING OILS (Cont'd)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Alcohol		65			X	0	0	X				CCD Heukelekian Lamb
Water		10										
Suntan Oil:												
2-Ethyl Hexyl Salicylate		5										
Sesame Oil		40				X	X	X				Merck 8
Mineral Oil		55										
may contain:												
Alcohol					X	0	0	X				CCD Heukelekian Lamb
Para-Aminobenzoic Acid and Derivatives				X		0	X	0				CCD Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2844 515	LOTIONS AND OILS (EXCLUDING HAIR, AFTERSHAVE, AND BATH): SUNTAN, INCLUDING OILS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Benzyl Salicylate						0	X				CCD
Cinnamic Acid Derivatives					X		X				Merck 8
Coumarin Derivatives			X		X	0	X				CCD Toxic Sub
Paradimethylaminobenzoic Acid and Esters						X					CCD
Hydroquinone				X	0	X					CCD Heukelekian
Homomenthyl Salicylate			0		X	X	X				CCD
Lanolin			X		X	X	X				Merck 8
Naphtholsulfonates											
Nonionic and Anionic Surfactants			X								III-B
Propylene Glycol			X	X		0	X				CCD Merck 8 Lamb, III-B

x - may be an effect
 o - no effect
 blank - no information

2844 515 LOTIONS AND OILS (EXCLUDING HAIR, AFTERSHAVE, AND BATH): INCLUDING OILS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Propellants											
Quinine Salts											
Quinoline Salts				X	X		X				Merck 8 Heukelekian
Salol (Phenyl Salicylate)					X	X	X				CCD
Tannic Acid and Derivatives			X	X	0	X	X				CCD Heukelekian
Thickeners											
Umbelliferone and Derivative					0		X				Merck 8
Vegetable Oils (e.g., Coconut Oil)									X		

x - may be an effect
 o - no effect
 blank - no information

2844 516	CLEANSING LOTIONS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cleansing Lotion		Gleason									
Emulsion Type:											
Mineral Oil, Light	35										
Triethanolamine Stearate	10										
Water	55										
Liquefying Cream Type:											
Mineral Oil, Light	65										
Petrolatum	15										
Paraffin F125-127	20				X	X					Merck 8
Nonionic Emulsion Cream Type:											
Mineral Oil, Light	50										
Beeswax	7				X	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 516	CLEANSING LOTIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Atlas G-1726		8										
Tween 40		2										
Water		33										
may contain:												
See: 2844 511												

x - may be an effect
o - no effect
blank - no information

2844 517 COSMETIC OILS, INCLUDING BABY OILS, BUT EXCLUDING SUNTAN OILS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Baby Oil:		Gleason									
Mineral Oil, Light	80										
Isopropyl Myristate or	14				X	O	X				CCD
Isopropyl Palmitate }					X						CCD
Lanolin	5.5		X		X	X	X				Merck 8
Hexachlorophene	0.5		X		X	X	O				CCD Merck 8 III-B
may contain:											
Vegetable Oils									X		
Lanolin Isolates or Derivatives			X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 518	HAND LOTIONS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Stearic Acid			5	Gleason			X	0	X				CCD
Lanolin			1		X		X	X	X				Merck 8
Arlacel 80			0.5										
Tween 60			2.5				0	X	X				CCD
d-Sorbitol (70%)			3.5				0	X	0				CCD
Water			87.5										
may contain:													
See 2844 512													

x - may be an effect
 o - no effect
 blank - no information

2844 519	OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Baby Lotion:			Gleason									
(Nonionic Emulsion Type)												
Mineral Oil, Light		35										
Lanolin		2		X		X	X	X				Merck 8
Cetyl Alcohol		2				X	X	X				CCD
Tween 80		5			X	O	X					Merck 8 Heukelekian
Arlacel 80		2										
Methyl Parabens		0.2				X	X	X				CCD Merck 8
Propyl Parabens						X	X				Merck 8	
Water		53.8										
may contain:												

x - may be an effect
 o - no effect
 blank - no information

2844 519	OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Antimicrobials (Hexachlorophene)					X		X	X	X				CCD Merck 8 III-B
Emulsifiers (Glycerol Monostearate)								X	X				CCD
Humectants (Propylene Glycol or					X	X		O	X				CCD Merck 8 III-B Lamb
Glycerol or					X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Sorbitol)							O	X	O				CCD
Lanolin Isolates or Derivatives					X		X	X	X				Merck 8
Thickeners (Sodium Alginate)						X	O	X	X				CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 519 OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Hormone Lotions: See 2844 514											
Skin Fresheners:											
Hamamelis Water	60										
Camphorated Alcohol (10%)	15										
Citric Acid	1		X	X	O	X	O				CCD Toxic Sub Heukelekian
Alcohol	24			X	O	O	X				CCD Heukelekian Lamb
may contain:											
Arnica											
Bay Rum											

x - may be an effect
 o - no effect
 blank - no information

2844 519		OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Boric Acid				X		0	X	0				Merck 8 Hackh's Toxic Sub
Brucine Sulfate							X					CCD
Chamomile							X	X				CCD
Esters												
Floral Waters												
Glycerin				X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Hexachlorophene				X		X	X	X				CCD Merck 8 III-B
Lactic Acid					X		X	0				CCD Heukelekian
Magnesia				X		X	X	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 519 OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Menthol			X		X	X	X				CCD Merck 8
Oil of Lavender											
Phosphoric Acid			X		O	O	O				CCD
Talc						X					CCD
Tincture of Benzoin					X	X	X				CCD
Bleach Lotions:											
Hydrogen Peroxide (5%)	64					O					CCD
Tincture of Benzoin	4					X	X				CCD
Water, q.s.	100										
Freckle Lotions:											
Formula I											
Potassium Chlorate	2		X		O	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 519 OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Potassium Carbonate	6				0	X					CCD
Sodium Borate	1		X		0	X	0				Merck 8 CCD
Sugar	6			X	0	X	0				CCD Heukelekian
Glycerin	16		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Rose Water, q.s.	100										
Formula II											
Acetic Acid (Dilute)	4		X	X		0	X				CCD Heukelekian
Alcohol	4			X	0	0	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2844 519	OTHER LOTIONS AND OILS, EXCLUDING HAIR, AFTERSHAVE, AND BATH (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Citric Acid		6		X	X	0	X	0				CCD Heukelekian Toxic Sub
Glycerin		6		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Water, q.s.		100										

x - may be an effect
 o - no effect
 blank - no information

2844 521 LIP PREPARATIONS (LIPSTICK, LIP ROUGE, ETC.) (Cont'd.)											REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Waxes (Candelilla)					X	X					CCD
Polyethylene Glycol Ethers											
Tetrahydrofurfuryl Acetate					O	O					CCD
Preservatives (Parahydroxybenzoates)											
Spermaceti					X	X	X				CCD
Propyleneglycol Monoesters			X								Gleason
Color:											
Certified Dyes (Soluble)	2-5			X	O	X					CCD Heukelekian
Certified Color Lakes (Insoluble)	10-15				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2844 522		ROUGES (EXCLUDING LIP ROUGE)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Cake (Compact):			Gleason										
Talc		40					X						CCD
Kaolin		20					X	X	X				CCD
Brilliant Red Lake (Certified)		10						X					CCD
Zinc Oxide		20					X	X	0				CCD
Zinc Stearate		4.0			X		X		X				Merck 8
Liquid Petrolatum		3.0					X	0	0				Merck 8
Tragacanth Mucilage		3.0					X		0				Merck 8
Perfume		q.s.			X		X	X	X		X		CCD K-0
Cream													
Formula I													
Erythrosin to Color		4						X					CCD
Stearic Acid		24					X	0	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 522	ROUGES (EXCLUDING LIP ROUGE) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Cetyl Alcohol		6			X	X	X				CCD
Potassium Hydroxide		1	X		O	X					CCD
Glycerin		6	X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Water, q.s.		100									
Formula II											
Sorbitam Sesquioleate		2									
Lanolin		2	X		X	X	X				Merck 8
Mineral Oil		16									
Petrolatum		30									
Color Pigment		10			X	X					CCD
Sorbitol		6			O	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 522 ROUGES (EXCLUDING LIP ROUGE) (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Perfume	q.s.		X		X	X	X		X		CCD K-O
Liquid											
Formula I											
Carmin	4				X	X					CCD
Ammonium Hydroxide (28%)	6		X			O	X				CCD Merck 8 III-B
Glycerin	12		X	X	O	X	O				CCD III-B Heukelekian
Water, q.s.	100										
Formula II											
Ethyl Alcohol	88			X	O	O	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2844 522	ROUGES (EXCLUDING LIP ROUGE) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Ethyl Cellulose		3.5				X	X					CCD
Oleic Acid Monoglyceride		3.5										
Red Color Pigment		5.0				X	X					CCD
Paste												
Carmine		4				X	X					CCD
Ammonium Hydroxide		4		X			O	X				CCD Merck 8 III-B
Beeswax		6				X	X	X				CCD Merck 8
Cetyl Alcohol		4				X	X	X				CCD
Stearic Acid		8				X	O	X				CCD
Cocoa Butter		4				X	X	X				CCD
Petrolatum, q.s.		100										

x - may be an effect
 o - no effect
 blank - no information

2844 523	EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Eyebrow Pencils:				Gleason									
Lampblack			10-20					X					CCD
Petrolatum			40										
Paraffin, q.s.			100				X	X					Merck 8
may contain:													
Aluminum Silicate							X	X					Hackh's Merck 8
Stearates													
Eyebrow Plucking Creams:													
Benzocaine			2		X		X	X	O				CCD Hackh's III-B
Cold Cream			98					X	X				Hackh's
Eye Creams (Eye Tissue Creams, Eye Wrinkle Creams):													
Lecithin			6				X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 523	EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Cholesterin	2				X	X	X				CCD Merck 8
Beeswax	24				X	X	X				CCD Merck 8
Lanolin	6		X		X	X	X				Merck 8
Sodium Benzoate	1		X	X	O	X	O				Merck 8 Heukelekian
Boric Acid			X		O	O	O				Merck 8 Hackh's Toxic Sub
Mineral Oil											
Ascorbyl Palmitate					O	X	X				CCD
Oil of Almond, q.s.	100				X	X	O				CCD
Eyelash and Eyebrow Dyes:											
Brown, Black and Blue Certified Oil Soluble Dyes				X	O	X					Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 523		EYE PREPARATIONS, (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Eyelash Creams:												
Lanolin		5		X		X	X	X				Merck 8
Cocoa Butter		4				X	X	X				CCD
Paraffin		10				X	X					Merck 8
Cetyl Alcohol		2				X	X	X				CCD
Peach Kernel Oil, q.s.		100										
Eyelash Oils:												
Lanolin		8		X		X	X	X				Merck 8
Cocoa Butter		4				X	X	X				CCD
Cetyl Alcohol		8				X	X	X				CCD
Alcohol		2			X	O	O	X				CCD Heukelekian
Water		100										
Olive Oil, q.s.		100					X			X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 523 EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Eye Shadow:											
Petrolatum	70										
Pigments (Insoluble)	30				X	X					CCD
may contain:											
Calcium Carbonate					X	X	0				CCD
Ethoxylated Sorbitan Oleate			0		X	X					Gleason CCD
Talc						X					CCD
Eye Liners:											
Alkanolamine Stearate											
Higher Fatty Alcohol											
Polyvinylpyrrolidone					0	X					CCD
Cellulose Ether											

x - may be an effect
 o - no effect
 blank - no information

2844 523		EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Methylparaben						X	X	X				CCD Merck 8
Polyol												
Antioxidant												
Perfume				X		X	X	X		X		CCD K-0
Titanium Dioxide				X		X	X					Merck 8
Mascara:												
Triethanolamine Stearate		50										
(Carnauba) Wax		25				X	X	X				CCD
Paraffin		15				X	X					Merck 8
Lanolin		5		X		X	X	X				Merck 8
Pigments (Insoluble)		5				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2844 523		EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
may contain:												
Beeswax						X	X	X				CCD Merck 8
Cetyl Alcohol						X	X	X				CCD
Glyceryl Monostearate							X	X				CCD
Gums (Tragacanth)						X		O				Merck 8
Mineral Oil												
Perfume				X		X	X	X		X		CCD K-O
Preservatives (Parahydroxybenzo- ates)												
Propylene Glycol				X	X		O	X				CCD Merck 8 III-B Lamb
Spermaceti						X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 523	EYE PREPARATIONS (MASCARA, EYE SHADOW, EYE LINERS, EYE CREAMS, ETC.) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Isopropyl Myristate					X	0			X		CCD
Vegetable Oils									X		CCD

x - may be an effect
 o - no effect
 blank - no information

2844 524		DEODORANT (PERSONAL) LIQUID (INCLUDING AEROSOLS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Liquid Antiperspirant (With Deodorant Action)			Gleason									
Aluminum Chloride	15			X		0	X	X				Hackh's Merck 8 III-B
Urea	5					0	X	X				CCD Merck 8
Propylene Glycol	5			X	X		0	X				CCD Merck 8 III-B Lamb
Water	75											
Roll-On Deodorant Antiperspirant, Lotion Type (Emulsified):												
Cetyl Alcohol	3					X	X	X				CCD
Polyoxyethylene (20) Cetyl Ether	4.5						X	X				
Polyoxyethylene Sorbitan Monolaurate	1					0	X	X		X		CCD

x - may be an effect
 o - no effect
 blank - no information

2844 524	DEODORANT (PERSONAL) LIQUID (INCLUDING AEROSOLS) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Aluminum Chlorhydroxide Complex	20.0 - 24.0		X		0						Merck 8
Urea	2.0				0	X	X				CCD Merck 8
Hexachlorophene	0.1		X		X	X	X				CCD III-B
Trisodium Salt of Hydroxyalkylethylene Diamine Triacetic Acid	0.05										
Perfume	0.2		X		X	X	X		X		CCD K-0
Water	45.1 - 49.1										
Roll-On Deodorant, Clear:											
Alcohol	20			X	0	0	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2844 524		DEODORANT (PERSONAL) LIQUID (INCLUDING AEROSOLS) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Polyoxylated Nonyl Phenol (Igepal CO-630)		1		X		0							Gleason Merck 8
Methyocel 65 Hg. (4000 c.p.s.)		0.75											
Urea		2				0	X	X					CCD Merck 8
Aluminum Chlorohydroxide Complex		20		X		0							Merck 8
Water		56.25											
Spray Deodorant (With Antiperspirant Action):													
Aluminum Phenolsulfonate		10				0	X	X					Merck 8
Propylene Glycol		5		X		0	X	X					Hackh's Merck 8 III-B
Alcohol		85			X	0	0	X					CCD Heukelekian Lamb
Perfume		q.s.		X		X	X	X		X			CCD K-0

x - may be an effect
 o - no effect
 blank - no information

2844 525	DEODORANT (PERSONAL) CREAM												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Formula I			Gleason										
Aluminum Chlorhydroxide		20		X		O						Merck 8	
Sorbitan Monostearate (Span 60)		5		O		X	X	X				Gleason CCD	
Polyoxyethylene Sorbitan Monostearate (Tween 60)		5				O	X	X				CCD	
Stearic Acid		15				X	O	X				CCD	
Propylene Glycol		5		X	X		O	X				CCD Merck 8 III-B Lamb	
Water		50											
Formula II													
Aluminum Sulfate, Anhydrous		9-10		X		O	X					Merck 8 CCD Toxic Sub	
Spermaceti		9.5				X	X	X				CCD	

x - may be an effect
 o - no effect
 blank - no information

2844 525	DEODORANT (PERSONAL) CREAM (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Glyceryl Monostearate		9.5					X	X				CCD	
Chondrus		1				O	X					CCD	
Sodium Lauryl Sulfate		1				O	X	X				CCD Merck 8	
Glycerine		5		X	X	O	X	O				CCD Merck 8 III-B Heukelekian	
Cetyl Alcohol		1				X	X	X				CCD	
Hexachlorophene		0.1-0.2		X		X	X	O				CCD Merck 8 III-B	
Perfume		0.4-0.75		X		X	X	X		X		CCD, K-0	
Water		63.5 - 65.05											

x - may be an effect
 o - no effect
 blank - no information

2844 526	DEODORANT (PERSONAL) ALL OTHER		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Deodorant Stick:		Gleason									
Sodium Stearate	8				0	X	X				CCD Merck 8
Sorbitol	5				0	X	X				CCD
Hexachlorophene	0.2		X		X	X	X				CCD III-B
Alcohol	80.0			X	0	0	X				CCD Heukelekian Lamb
Water	6										

x - may be an effect
 o - no effect
 blank - no information

2844 531	MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMELS										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Nail Enamel:		Gleason									
Nitrocellulose	11.4					X					Hackh's
Tricresyl Phosphate	8.3		X		X				X		Merck 8
Dibutyl Phthalate	13.5		X	X		0					Hackh's Toxic Sub III-B Heukelekian
Ethyl Acetate	31.5			X	X	0	X				CCD Heukelekian Lamb
Butyl Acetate	30.0		X	X	X	0	X				CCD Toxic Sub Heukelekian Lamb
Ethyl Alcohol	4.9			X	0	0	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2844 531		MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMELS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
D & C RED NO. 19		0.1				X		X					Heukelekian CCD
D & C RED NO. 31 Dyes		0.2				X		X					Heukelekian CCD
Oil Pink		0.1				X		X					Heukelekian CCD
Nail Finishes:													
Celluloid		6						X					CCD
Amyl Acetate		75			X		X	O					Hackh's Toxic Sub
Acetone, q.s.		100			X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Nail Polish:													
Cellulose Nitrate		10						X					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2844 531	MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMELS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Butyl Acetate			20		X	X	X	0	X				CCD Toxic Sub Heukelekian Lamb
Ethyl Acetate			15			X	X	0	X				CCD Heukelekian Lamb
Toluene			35		X	0	X		X				Merck 8 III-B Heukelekian
Dibutyl Phthalate			5		X	X		0					Hackh's Toxic Sub III-B Heukelekian
Sulfonamide Formaldehyde Resin			10										
Alcohol			5			X	0	0	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2844 531	MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMELS (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:												
Alkyl Esters (e.g. Amyl Acetate) or				X		X	O					Hackh's Toxic Sub
Ethyl Lactate							O	X				Merck 8
Dyes (Soluble)						O	X					CCD
Glycol Ethers												
Gums (e.g. Dammar, Sandarac)												
Hydrocarbons, Aromatic (Xylene) or				X	O	X						Merck 8 III-B Heukelekian
Aliphatic (Hexane)				X		X		X				Merck 8 CCD
Ketones (e.g. Acetone)				X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Lakes (Insoluble)						X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2844 531	MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMELS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Phosphoric Acid Esters (See Tricresyl Phosphate)				X		X				X		Merck 8
Resins, Synthetic (Methyl Methacrylate)				X		X	0					CCD

x - may be an effect
 o - no effect
 blank - no information

2844 533	MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMEL REMOVERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Nail Polish Remover:		Gleason									
Consists of One or More of the Nail Polish Solvents.											
Acetone			X	X		0	X				CCD Toxic Sub Heukelekian
Alcohol				X	0	0	X				CCD Heukelekian Lamb
Amyl Acetate			X		X	0					Hackh's Toxic Sub
Butyl Acetate			X	X	X	0	X				CCD Toxic Sub Heukelekian Lamb
Benzene			X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 533 MANICURING PREPARATIONS: NAIL LACQUERS AND ENAMEL REMOVERS (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Ethyl Acetate				X	X	0	X				CCD Heukelekian Lamb
may contain:											
Caster Oil			X			X	X	X			CCD
Cetyl Alcohol					X	X	X				CCD
Lanolin			X		X	X	X				Merck 8
Olive Oil						X			X		Merck 8
Perfume			X		X	X	X		X		CCD K-0
Spermaceti											
Synthetic Oil (e.g. Ethyl Oleate or					X	X			X		CCD Merck 8
Butyl Stearate)					X	0	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 539	MANICURING PREPARATIONS: OTHER MANICURING PREPARATIONS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Cuticle Softener				Gleason									
Potassium Hydroxide			3		X		0	X					CCD
Glycerol			12		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Water			85										
may contain:													
Sodium Carbonate													
Triethanolamine					X	X		X	X				CCD Merck 8 III-B Heukelekian Lamb
Trisodium Phosphate							0	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 539		MANICURING PREPARATIONS: OTHER MANICURING PREPARATIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Nail Bleaches:													
Citric Acid		4			X	X	O	X	O				CCD Toxic Sub Heukelekian
Potassium Binoxalate		1			X		O	X	O				Merck 8
Water, q.s.		100											
Nail Whites:													
Cream													
Titanium Dioxide		2			X		X	X					Merck 8
Beeswax		12					X	X	X				CCD Merck 8
Cetyl Alcohol		4					X	X	X				CCD
Oxycholesterin		16											
Petrolatum		24											
Cocoa Butter		4					X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 539 MANICURING PREPARATIONS: OTHER MANICURING PREPARATIONS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Borate	0.6		X		O	X	O				CCD Merck 8
Tincture of Benzoin	6.0				X	X	X				CCD
Water, q.s.	100										
Liquid											
Titanium Dioxide	1.0		X		X	X					Merck 8
Glyceryl Monostearate	4.0					X	X				CCD
Beeswax	1.0				X	X	X				CCD Merck 8
Oil of Almond	10.0				X	X	O				CCD
Petrolatum	6.0										
Water, q.s.	100										

x - may be an effect
 o - no effect
 blank - no information

2844 541	TALCUM AND TOILET POWDER			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Baby Preparations				Gleason								
Baby Powder:												
Formula I												
Talc			93				X					CCD
Kaolin			5			X	X	X				CCD
Zinc Oxide			2			X	X	O				CCD
Formula II												
Rice Starch			100		X	X	X					CCD Heukelekian
Formula III												
Talc			50				X					CCD
Dry-Flo			50			X						CCD

x - may be an effect
 o - no effect
 blank - no information

2844 541	TALCUM AND TOILET POWDER (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:												
Boric Acid				X		0	X	0				Merck 8 Toxic Sub
Magnesium Carbonate		5				X	X					Merck 8
Hexachlorophene		0.5		X		X	X	X				CCD III-B
Perfume Oil		Trace		X		X	X	X		X		CCD K-0

x - may be an effect
 o - no effect
 blank - no information

2844 545	LIQUID AND COMPACT FOR WET APPLICATION												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Liquid Make-Ups			Gleason										
Liquid Cosmetic Stockings:													
Propylene Glycol Monostearate	4			X								Gleason	
Oleic Acid	2			X		X	0					Merck 8	
Liquid Petrolatum	1					X	0			X		Merck 8	
Bentonite Suspension (5%)	20					X	X					CCD Merck 8	
Color Pigments	14					X	X					CCD	
Triethanolamine	1.5			X	X		X	X				CCD Merck 8 III-B Heukelekian Lamb	
Propylene Glycol	6			X	X		0	X				CCD Merck 8 III-B Lamb	

x - may be an effect
 o - no effect
 blank - no information

2844 545		LIQUID AND COMPACT FOR WET APPLICATION (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Methyl Parahydroxybenzoate		0.2					X	X	X				CCD Merck 8
Water, q.s.		100											
Liquid Powders:													
Formula I													
Titanium Dioxide		2			X		X	X					Merck 8
Talc		1						X					CCD
Stearic Acid		10					X	0	X				CCD
Liquid Petrolatum		12					X	0			X		Merck 8
Triethanolamine		3			X	X		X	X				CCD Merck 8 III-B Heukelekian Lamb
Water, q.s.		100											
Perfume		q.s.			X		X	X	X		X		CCD K-0

x - may be an effect
 o - no effect
 blank - no information

2844 545	LIQUID AND COMPACT FOR WET APPLICATION (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula II												
Cetyl Alcohol	0.2					X	X	X				CCD
Lanolin, Anhydrous	0.2			X		X	X	X				Merck 8
Glyceryl Stearate	0.8						X	X				CCD
Sodium Hydroxide	0.2			X		O						Merck 8
Stearic Acid	7.5					X	O	X				CCD
Propylene Glycol	15.0			X	X		O	X				CCD Merck 8 III-B Lamb
Titanium Dioxide	5.0			X		X	X					Merck 8
Color Pigments	5.0-12					X	X					CCD
Water, q.s.	100											

x - may be an effect
 o - no effect
 blank - no information

2844 545	LIQUID AND COMPACT FOR WET APPLICATION (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Liquid Powders											
may contain:											
Alcohol			X		O	O	X				CCD Heukelekian Lamb
Boric Acid			X		O	X	O				Merck 8 Hackh's Toxic Sub
Calcium Carbonate					X	X	O				CCD
Candelilla Wax					X	X					CCD
Carnauba Wax					X	X	X				CCD
Clay											CCD
Essential Oils (Perfume)			X		X	X	X		X		CCD K-O
Esters											CCD

x - may be an effect
 o - no effect
 blank - no information

2844 545	LIQUID AND COMPACT FOR WET APPLICATION (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ethyl Parasept					0						Merck 8
Glycerin			X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Glycols						0					Hackh's
Iron Oxide					X	X					CCD
Lecithin					X	X	X				CCD
Magnesium Carbonate					X	X					Merck 8
Magnesium Oleate					X	X					Merck 8
Oils											
Sorbitol					0	X	0				CCD
Spermaceti					X	X	X				CCD
Waxes					X	X					CCD
Zinc Oxide					X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2844 545	LIQUID AND COMPACT FOR WET APPLICATION (Cont'd.										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Zinc Stearate			X		X		X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2844 598 OTHER COSMETICS AND TOILETRIES, INCLUDING DEPILATORIES		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Face Masks		Gleason									
Beauty Clays:											
Purified Siliceous Earth	10										
Kaolin	40				X	X	X				CCD
Glycerin	6		X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Water, q.s.	100										
Face Packs:											
Zinc Stearate	4		X		X		X				Merck 8
Zinc Oxide	4				X	X	O				CCD
Glycerin	8		X	X	O	X	O				CCD Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 598 OTHER COSMETICS AND TOILETRIES, INCLUDING DEPILATORIES (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Tragacanth	4				X		O				Merck 8
Alcohol	10		X		O	O	X				CCD Heukelekian Lamb
Limewater, q.s.	100					O	O				CCD
may contain:											
Acacia					O	X	X				CCD
Balsam of Peru					X	X	X				CCD
Glyceryl Monostearate						X	X				CCD
Hexachlorophene			X		X	X	X				CCD Merck 8 III-B
Magnesium Carbonate					X	X					Merck 8
Mercurized Wax											
Salicylic Acid			X	X	X	X					Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2844 598	OTHER COSMETICS AND TOILETRIES, INCLUDING DEPILATORIES (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Spermaceti						X	X	X				CCD
Sulfonated Castor Oil-Turkey												
Talc							X					CCD
Titanium Oxide				X		X	X					Merck 8
Zinc Sulfocarbolate												
Depilatories												
Cream:												
Calcium Thioglycolate		7.5				X	X					CCD
Calcium Carbonate		20				X	X	0				CCD
Calcium Hydroxide		1.5		X		X	X					Merck 8
Cetyl Alcohol		6.0				X	X	X				CCD
Sodium Lauryl Sulfate		0.5				0	X	X				CCD Merck 8
Water		64.5										

x - may be an effect
 o - no effect
 blank - no information

2844 598	OTHER COSMETICS AND TOILETRIES, INCLUDING DEPILATORIES) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Wax:												
Rosin		50				X	X					CCD
Beeswax		25				X	X	X				CCD Merck 8
Paraffin		15				X	X					Merck 8
Petrolatum		10										

x - may be an effect
o - no effect
blank - no information

2851 121	OIL AND ALKYD VEHICLE HOUSE PAINTS AND TINTING BASES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
House Paint, Trim Paint, Exterior Oil, Exterior Primers				Gleason									
Titanium Dioxide			0-20		X		X	X					Merck 8
Titanium Calcium			0-35										
Zinc Oxide			0-25				X	X	0				CCD
White Lead (See: Lead Carbonate,Basic)			0-20		X		X	X					CCD
Inert Filler Pigments			0-40										
Linseed Oil			0-35					X	X				CCD
Alkyd Resin (See: Resins, Synthetic)			0-30										
Mineral Spirits			5-30		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 124 PORCH AND DECK ENAMELS AND TINTING BASES INCLUDING INTERIOR-EXTERIOR FLOOR ENAMELS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Gloss Enamel and Floor Enamels		Gleason									
Titanium Dioxide	0-35		X		X	X					Merck 8
Titanium Calcium	0-35										
Inert Pigments	0-20										
Alkyd Resin or Oil Varnish (see Resins, Synthetic or Varnish)	30-40										
Mineral Spirits	30-40		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 127	BARN AND ROOF PAINTS (EXCLUDING BITUMINOUS PAINTS AND ROOF COATINGS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 121		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 128	MARINE PAINTS AND ENAMELS (SHELF GOODS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Antialgae Paints		Gleason									
Cuprous Oxide	Copper as Metal 7		X		X	X					CCD
Copper Soap					X						CCD
Arsenic Oxide (Arsenic Trioxide)	Arsenic as Metal 7		X		X	X	0				Hackh's CCD Merck 8 Toxic Sub
Copper Sulfate Pentahydrate			X		0	X					CCD Toxic Sub
Mercury Soap (see Soaps, Metallic)	Mercury as Metal 0.3				X						CCD
2,2-Dihydroxy-5, 5-Dichlorodiphenyl- methane (Dichlorophene)			X		X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 131	METALLIC PAINTS (ALUMINUM, ZINC, BRONZE, ETC.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Aluminum, Bronze, and Other Metallic Paints											
Aluminum Pigment (see Metallic Pigments)		7-15									
Petroleum Resin		0-40									
Vegetable Oil Varnish (see Varnish)		0-40									
Linseed Oil		0-30				X	X				CCD
Aromatic Thinners		0-50									
Mineral Spirits		0-30	X								Merck 8
Coumarone Indene Resin		0-15				0	X				CCD
Bold Bronze Contains Copper or Copper-Tin Alloy Pigment											

x - may be an effect
 o - no effect
 blank - no information

2851 135	VARNISH, OLEORESINOUS (SYNTHETIC AND NATURAL)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Varnish, Gloss, Flat (Satin): Varnish Stains		Gleason									
Alkyd Resin (see Resins, Synthetic)	0-50										
Vegetable Oil Varnish (see Varnish)	0-55										
Mineral Spirits	45-65		X								Merck 8
Colored Varnishes Contain Similar Coloring Materials Indicated in Stains						X					
Fillers and Pigments	0-5				X	X					CCD
Polyurethane Resin	0-55										
Phenolic Resin	0-15										

x - may be an effect
 o - no effect
 blank - no information

2851 137	STAINS (INCLUDING SHINGLE AND SHAKE)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%	REF.									
	Stains		Gleason									
	Oleo Resinous Varnishes (see Varnish)											
	Mineral Spirits			X								Merck 8
	Stains, Penetrating or Wiping: Wood Fillers											
	Gilsonite or Asphalt	0-25				X	X	X				CCD
	Aniline Dyes	0-3		0			X					CCD Heukelekian
	Vegetable Oil Varnish (see Varnish)	0-25										
	Alkyd Resin (see Resins, Synthetic)	0-25										
	Mineral Spirits	50-80		X								Merck 8
	may contain:											
	0-30 Pigments Plus Fillers					X	X					CCD
	Wood Preservatives (Usually Pentachlorophenol in the Range of 3-5%)			X		X		X				Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2851 139 OTHER EXTERIOR OIL PAINTS INCLUDING BITUMINOUS PAINTS												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Asphalt Paints, Including Screen Enamel, Stove Enamel			Gleason									
Asphalt or Gilsonite		20-50				X	X	X				CCD
Oil or Varnish		0-20										
Mineral Spirits		45-70		X								Merck 8
Carbon Black		0-15		X		X	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2851 200	EXTERIOR WATER-TYPE TRADE SALES PAINT PRODUCTS,N.S.K.			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
See 2851 211			Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 211		ALL PURPOSE WATER EMULSION PAINTS AND TINTING BASES (EXCLUDING EXTERIOR-INTERIOR WATER EMULSION PAINTS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Latex House Paint			Gleason									
Titanium Dioxide		10-20		X		X	X					Merck 8
Inert Filler Pigments		20-55										
Polyvinyl Acetate Elastomer		10-25		0		X	0	0				CCD
Acrylic Elastomer						X	0					CCD
Styrene Butadiene Elastomer							X					CCD
Ethylene Glycol		0-2		X	X							Merck 8 III-B Heukelekian Lamb
Emulsifying Agents		0-1										
Zinc Oxide		5-10			X		X	0				CCD
Alkyd Resin		5-30		0								Merck 8
Chlorinated Phenols, or		0.1-0.5										Merck 8 III-B
Orthophenyl Phenols				X		X	X	X				

x - may be an effect
 o - no effect
 blank - no information

2851 211	ALL PURPOSE WATER EMULSION PAINTS AND TINTING BASES (EXCLUDING EXTERIOR-INTERIOR WATER EMULSION PAINTS)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Water		20-35									
Vegetable Oils or Resins (Natural) }		0-10			X	X					CCD
Latex House Paints May Contain Higher Quantities of Mercury Fungicides Than Latex Wall Paints, But Not Exceeding 0.2% as Mercury Without Special Labeling.											

x - may be an effect
 o - no effect
 blank - no information

2851 3	INTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Varnishes and Shellacs			Gleason									
Resins, Natural						X	X					CCD
Resins, Synthetic												
Methyl Alcohol				X	X	0	0	X				CCD Merck 8 Heukelekian
Ethyl Alcohol					X	0	0	X				CCD Heukelekian Lamb
Gasoline				X	X	X						Merck 8 Heukelekian
Benzene				X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian
Sodium Hydroxide				X		0	X					Merck 8
Turpentine							X	X				CCD

x - may be an effect

o - no effect

blank - no information

2851 3	INTERIOR OIL-TYPE TRADE SALES PAINT PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Lead				X		X	X					Hackh's Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2851 352	FLAT WALL PAINTS AND TINTING BASES INCLUDING SEMI-PASTE (OIL AND ALKYD VEHICLE)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Flat Wall Paint Oil, Primers and Sealers			Gleason									
Titanium Dioxide		0-20		X		X	X					Merck 8
Titanium Calcium		0-40										
Lithopone		0-40					X					CCD
Inert Filler Pigments		10-50										
Alkyd Resin or		9-25										Merck 8
Varnish												
Mineral Spirits		25-35		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 353	GLASS AND QUICK DRYING ENAMELS AND TINTING BASES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 124		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 354 SEMIGLOSS PAINTS AND TINTING BASES		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Semi-gloss, Satin or Eggshell Enamel		Gleason									
Titanium Dioxide	10-25		X		X	X					Merck 8
Titanium Calcium	0-40										
Lithopone	0-40					X					CCD
Inert Filler Pigments	5-25										
Alkyd Resin or	25-30										
Varnish											
Mineral Spirits	20-30		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 356	UNDER COATERS AND PRIMERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 352		Gleason									

x - may be an effect
 o - no effect
 olank - no information

2851 359	OTHER INTERIOR OIL PAINTS AND ENAMELS, N.E.C., INCLUDING MILL WHITE PAINTS AND INTERIOR MARINE SHELF GOODS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 352		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 371	STAINS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
See 2851 137				Gleason								

x - may be an effect
 o - no effect
 blank - no information

2851 365	VARNISHES, EXCEPT SHELLAC VARNISHES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 135		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 381	AEROSOL PAINTS MADE FROM PAINT PRODUCED AND PACKAGED IN THIS ESTABLISHMENT OR PACKAGED ON CONTRACT FOR YOU											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Aerosol Paint Products			Gleason									
Aerosol packaged paint products of wide variety are available in almost all of the paint categories. In addition to the ingrediants for the base paint product there will be present the propellant, usually one of the Freons, or propane or combinations.												

x - may be an effect
 o - no effect
 blank - no information

2851 400	INTERIOR WATER-TYPE TRADE SALES PAINT PRODUCTS, N.S.K.										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
See 2851 411		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 411	FLAT WATER EMULSION PAINTS AND TINTING BASES											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Latex Wall Paint, Texture Coatings, Fillers			Gleason									
Titanium Dioxide		10-20		X		X	X					Merck 8
Inert Filler Pigments		15-55										
Polyvinyl Acetate Elastomer				0		X	0	0				CCD
Acrylic Elastomer		10-25				X	0					CCD
Styrene Butadiene Elastomer							X					CCD
Lithopone		0-5					X					CCD
Ethylene Glycol		0-2		X	X							Merck 8 III-B Heukelekian Lamb
Emulsifying Agents		0-1										CCD
Chlorinated Phenols or Orthophenyl Phenols }		0.1-0.5		X		X	X	X				III-B Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 411	FLAT WATER EMULSION PAINTS AND TINTING BASES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Water	25-60										
Vegetable Oils or											
Resins, Natural }	0-10				X	X			X		CCD

x - may be an effect
 o - no effect
 blank - no information

2851 500	TRADE SALES LACQUERS, N. S. K.											
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
See 2851 511		Gleason										

x - may be an effect
 o - no effect
 blank - no information

2851 511	AUTOMOTIVE AND MACHINERY REFINISH LACQUERS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lacquers			Gleason									
Nitrocellulose							X					Hackh's
Ester Gum (Glyceryl, Methyl and Ethyl Esters of Resin Acids)												
Oil, Cottonseed							X	O		X		CCD
Synthetic Resins Made From Cotton and Oil												
Pigments						X	X					CCD
Nitric Acid				X			O	X				Merck 8
Lead Acetate				X		O	X	X				Merck 8 III-B
Magnesium Oxide				X		X	X	O				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Undercoatings		Gleason									
Pigment (15-50%)											
Iron Oxide	0-50				X	X					CCD
Titanium Dioxide	0-50		X		X	X					Merck 8
Silicates	0-50										
Lead or	0-50		X		X	X					Hackh's Merck 8 III-B
Lead Salts											
Zinc and	0-50				X	X					CCD Gleason
Zinc Salts			X		0						
Vehicle (50-85%)											
Alkyd Resin	0-50										
Phenolic Resin	0-50										

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fish Oil	0-25					X			X		Hackh's CCD
Vegetable Oil	0-25								X		
Aromatic Hydrocarbons	0-50										
Aliphatic Hydrocarbons	0-50										
Tire Paint											
Black Tire Paint											
Aliphatic Solvents (see Kerosene)				X							Heukelekian CCD
Natural Rubber or Synthetic Rubber }						X					
Plasticizer											
Pigments					X	X					CCD
White Tire Paint											
Pigments (10-25%)					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Titanium Dioxide	50-100	K-0	X		X	X					Merck 8
Calcium Carbonate	0-50				X	X	0				CCD
Silicates	0-50										CCD
Vehicles (75-90%)											
Synthetic Rubber	10-25										
Plasticizers	10-25										
Aromatic Hydrocarbons	25-75										
Aliphatic Hydrocarbons	0-25										
Automobiles											
Primer-Surfacer											
Resinous Binder	16										
Oil Length Oxidized Alkyd	43										
Low Polymer Diglycidyl Ether of Bisphenol											

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Alkylated Urea Formaldehyde Resin								0				CCD
Pigment (Red Iron Oxide)			56			X	X					CCD
Solvents			28									
Xylene			45		X	0	X					Merck 8 III-B Heukelekian
Mineral Spirits			45		X							Merck 8
1-Butanol			10		X	X		X				Merck 8 * Toxic Sub Heukelekian
Finish												
Vehicles												
Alkyd-Polymeric Ester												
Phthalic Anhydride			25		X	X	X	X	X			CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Mixed Monobasic Acids			60										
Polyols			15										
Amino-Formaldehyde Polymer			5-10										
Baking "Super-Enamel" Solution													
Alkyd, Non-Drying Oil (see Oils)			70								X		
Acids													
Melamine-Formaldehyde Condensation Polymer			30										
Nitrocellulose Lacquer													
Nitrocellulose			40					X					Hackh's
Non-Drying Alkyd (see Oils)			40								X		

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Castor Oil	10					X	X				Merck 8
Dibutyl Phthalate	10		X	X		O					Hackh's Toxic Sub III-B Heukelekian
Acrylic Lacquer											
Methyl Methacrylate			X		X	O					CCD
Butyl Benzyl Phthalate						O	X		X		CCD
Pigments											
Toluidine Benzidine Yellow					X	X					CCD
Hansa Yellow G					X	X					CCD
Anthropyrimidine Yellow					X	X					CCD
Acycamino Yellow					X	X					CCD
Nickel Azo Yellow					X	X					CCD
Benzidine Orange					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dinitroquiniline					X	X					CCD
Toluidine Red					X	X					CCD
Plum Red 2B					X	X					CCD
Quinacridine Red-Yellow Shade					X	X					CCD
Thio-Indigo Red-Violet B					X	X					CCD
Carbazole Dioxazine Violet					X	X					CCD
Quinacidine Violet					X	X					CCD
Copper Phthalocyanine Blue (Semi-Chlorinated)					X	X					CCD
Indanthrone Blue-Red Shade					X	X					CCD
Pigment Green B					X	X					CCD
Copper Phthalocyanine Green					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Specific Example: Polychrome Metallic Blue Auto Finish Binder Nonoxidized Alkyd Resin 60 Melamine- Formaldehyde Resin 40 Pigment Aluminum/Rutile Titanium Dioxide/ Phthalocyanine Blue Total Pigment/Binder Ratio Aluminum Pigment/Binder Ratio					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Solvent											
Toluene			X	O	X		X				Merck 8 III-B Heukelekian
Butanol			X	X			X				Merck 8 Toxic Sub Heukelekian
RMP Naphtha											
Appliance Exteriors											
Primer											
Titanium Dioxide	39		X		X	X					Merck 8
Mineral Spirit Solution	23										
Castor Oil	55					X	X				Merck 8
Phthalic Anhydride	33		X	X	X	X	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 6	INDUSTRIAL PRODUCT FINISHES, EXCEPT LACQUERS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Alkyd Solution	17										Merck 8
Aliphatic Hydrocarbon Solvent Thinner	20										
Enamel											
Titanium Dioxide	25		X		X	X					Merck 8
Xylene Solution Alkyd Polymer	19										
Saturated Acid	30-33										
Phthalic Anhydride	40-45		X	X	X	X	X				CCD Heukelekian
Polyols											
Alkyd Solution	18										Merck 8
Urea-Formaldehyde Resin, Butylated	18						0				CCD
Xylene	20		X	0	X						Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

EXTERIOR (SPECIALLY FORMULATED COATINGS FOR SPECIAL													
2851 613	CONDITIONS IN THE EXTERIOR OF INDUSTRIAL PLANTS RE- QUIRING PROTECTION AGAINST EXTREME TEMPERATURES, FUNGI, CHEMICALS, FUMES, ETC.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Anticorrosion Paints				Gleason									
Pigment:													
Zinc Chromate							X	X					CCD
Lead Chromate					X		X	X					Merck 8
Red Lead Oxide					X		X	X					CCD
Basic Lead Carbonate					X		X	X					CCD
Zinc Oxide							X	X	0				CCD
Lead Monoxide					X		X	X					CCD
Vehicle:													
Rosin							X	X					CCD
Pine Oil									X		X		CCD
Coal Tar							X	X	X				CCD
Petroleum Ether					X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

EXTERIOR (SPECIALLY FORMULATED COATINGS FOR SPECIAL

2851 613		CONDITIONS IN THE EXTERIOR OF INDUSTRIAL PLANTS RE-QUIRING PROTECTION AGAINST EXTREME TEMPERATURES, FUNGI, CHEMICALS, FUMES, ETC.) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Anticorrosion Paints may contain:													
Ammonium Hydroxide				X			O	X					Merck 8 CCD III-B
Arsenic				X		X	X						Merck 8 III-B
Cuprous Oxide				X		X	X						CCD
Ethyl Alcohol					X	O	O	X					CCD Heukelekian Lamb
Kerosene					X								Heukelekian
Mercuric Oxides				X		X	X						CCD
Metallic Soap						X							CCD
Methylene Chloride				X		O	O						Merck 8 III-B
Paraffin						X	X						Merck 8

x - may be an effect
o - no effect
blank - no information

EXTERIOR (SPECIALLY FORMULATED COATINGS FOR SPECIAL													
2851 613	CONDITIONS IN THE EXTERIOR OF INDUSTRIAL PLANTS RE- QUIRING PROTECTION AGAINST EXTREME TEMPERATURES, FUNGI, CHEMICALS, FUMES, ETC.) (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Plastic Thickener (Plasticizer)													
Rust Retardant													
Bis(Tributyl Tin) Oxide							X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 618	MARINE PAINTS, SHIP BOTTOM, AND OTHER SPECIALLY FORMULATED PAINTS (EXCLUDING SHELF GOODS)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
See 2851 128			Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 700	INDUSTRIAL LACQUERS, INCLUDING ACRYLICS, N.S.K.		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
See 2851 511		Gleason									

x - may be an effect
 o - no effect
 blank - no information

2851 711	AUTOMOTIVE			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
See 2851 511				Gleason								

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Caulking Compounds		Gleason									
Formula I											
Styrenated Alkyd Resin }	40				X	X					Merck 8
Chlorinated Biphenyl }											
Titanium Dioxide }	40		X		X	X	0				Merck 8
Calcium Carbonate }					X	X					CCD
Asbestos Fiber }			X								Merck 8
Xylene	20		X	0	X						Merck 8 III-B Heukelekian
Formula II											
Polyvinyl Acetate			0		X	0	0				CCD
Titanium Dioxide			X		X	X					Merck 8
Calcium Carbonate					X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Formula III												
Vegetable Oils (Edible)										X		
Mineral Spirits			X									Merck 8
Drier (Cobalt)												
Titanium Dioxide			X		X	X						CCD
Calcium Carbonate					X	X		0				CCD
Asbestos Fiber			X									Merck 8
may contain:												
Aluminum Stearate or						X	X					CCD
Calcium Stearate						X						Merck 8
Asphalt						X	X	X				CCD
Iron Oxide						X	X					CCD
Petroleum Sulfonate												
Chromium						X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Wax						X	X					CCD
Zinc Oxide						X	X	O				CCD
Lead			X				X					Hackh's Merck 8 III-B
Formula IV												
Soy Oil	15-20						X			X		CCD
Polybutene	6-10											
Fatty Acid	0.5-1											
Mineral Spirits	2-4		X									Merck 8
Marble Dust (See Lime)	45-55											
Talc (See Inert Filler Pigments)	15-20						X					CCD
Cobalt Drier												
Termite Destroying												

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Asphalt	30-45				X	X	X				CCD
Petroleum Distillate	15-30										
Asbestos	5-15		X								Merck 8
Mineral Dust (e.g., Soap Stone)	25-35										
Dieldrin or	0.75-2		X		X						Merck 8
Aldrin			X		X						Merck 8 Toxic Sub
Asphalt Cements or Caulking Compounds											
Asphalt	45-70				X	X	X				CCD
Mineral Spirits	10-25		X								Merck 8
Kerosene	0-20			X							Heukelekian
Asbestos Fiber	5		X								Merck 8
Ground Rock Dust (Minus 100 Mesh)	0-25										

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Cement Sealer												
Cement Portland							X					CCD
Titanium Dioxide			X		X	X						CCD
Silicates												
Resins, Synthetic												
Resins, Natural					X	X						CCD
may contain:												
Aromatic Hydrocarbons												
Aliphatic Hydrocarbons												
Ethylene Glycol			X	X								Merck 8 III-B Heukelekian Lamb
Hydrated Lime			X		X	X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Mica						X					CCD
Pigments					X	X					CCD
Polysulfide Caulking Compound											
Liquid Polysulfide Polymer	100										
Titanium Dioxide	20		X		X	X					CCD
Calcium Carbonate	25-75				X	X	0				CCD
Polychlorinated Polyphenols	0-50										
Molecular Sieve	2										
Barium Oxide	0-1		X		0	X					Merck 8
Calcium Peroxide	8-12				X	X	C				Merck 8
Barium Peroxide	0-4		X		X	X					Merck 8
Potassium Phosphate	2-4				0	X		X			Merck 8
Liquid (See Epoxy Resin)	2-6										CCD

x - may be an effect
 o - no effect
 blank - no information

2851 8 PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)											REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Silicone Rubber Caulking											
Polydimethylsiloxane (see Siloxanes)	85										
Silica	15		X		X	X					CCD Merck 8
may contain as pigments:											
Aluminum Flake			X			X					Merck 8
Carbon Black			X		X	X					CCD Toxic Sub
Titanium Dioxide			X		X	X					CCD
Hypalon Caulk											
Hypalon (Chlorosulfonated Polyethylene Polymer)	20					X					CCD
Elastomeric Binder											
Chlorinated Paraffin Plasticizer	20					X					CCD

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Asbestos or		10		X								Merck 8
Silicon Dioxide Extenders				X		X	X					CCD Merck 8
Titanium Dioxide Pigment		12		X		X	X					CCD
Talc (Extender) (see Inert Filler Pigments)		8					X					CCD
Tribasic (Lead Maleate)		6					X					CCD
Rosin						X	X					CCD
MBTS		0.5		X		X	X					Merck 8
Thiuram												
Xylene		10		X	0	X						Merck 8 III-B Heukelekian
Tributyl Phosphate		9				X	0	0				CCD
Fractal A		3										

x - may be an effect
 o - no effect
 blank - no information

2851 8	PUTTY, CAULKING COMPOUNDS AND ALLIED PRODUCTS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Isopropyl Alcohol		2			X	0	0					CCD Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2851 863 PAINT AND VARNISH REMOVERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Nonflammable										
Methylene Chloride	70-90	X		O	O					Merck 8 III-B
Methanol	5-15	X	X	O	O	X				CCD Merck 8 Heukelekian Lamb
Toulene	1-3	X	O	X		X				Merck 8 III-B Heukelekian
Methyl Cellulose Emulsifiers or	0.75-1.	X	X	O	X					CCD Merck 8 Heukelekian
Ethyl Cellulose Emulsifiers				X	X					CCD
Paraffin Wax	2-5			X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2851 863 PAINT AND VARNISH REMOVERS (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
may contain:											
Carbon Tetrachloride (If Present, Toxicity High)	40		X	0	X	0	X				CCD III-B Toxic Sub Heukelekian
Isopropanol	0-9			X	0	0					CCD Heukelekian
Mineral Spirits	0-3		X								Merck 8
Nonionic Surfactants }	3-6		X								III-B
Potassium Oleate }					0	X					Merck 8
Ethylene Dichloride			X	X	X		X				Merck 8 III-B Mills 8 Heukelekian
Flammable											
Benzene	15-50		X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 863	PAINT AND VARNISH REMOVERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Methanol		10-25	X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Acetone		10-25	X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Paraffin Wax		1-5			X	X					Merck 8
Toluene		0-75	X	0	X		X				Merck 8 III-B Heukelekian
Ethyl Cellulose		1-2			X	X					CCD
may contain:											
Alkyl Aryl Sodium Sulfonate											
Borax			X		0	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2851 863	PAINT AND VARNISH REMOVERS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Ethanol or	0-5			X	0	0	X					CCD Heukelekian Lamb
Proprietary Solvent												
Isopropanol				X	0	0						CCD Heukelekian
Mineral Spirits			X									Merck 8
Phenol			X	X	0	0	X					Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Potassium Bitartrate	0-55				0	X						CCD
Sodium Sesquicarbonate					0	X						CCD
1,1,1-Trichloroethane			X		X							Merck 8 III-B
Triethyl Ammonium Phosphates												

x - may be an effect
 o - no effect
 blank - no information

2851 863	PAINT AND VARNISH REMOVERS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Trisodium Phosphate (Detergent)					0	X		X			Merck 8
Stripping Agents, Paint Remover											
Phenols			X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Cresols			X		X	X					Merck 8
Methylene Chloride			X		X		0				Merck 8 III-B
Organic Acid Catalyst (Acetate, Formate)											
Concentrated Alkali			X								CCD

x - may be an effect
 o - no effect
 blank - no information

2851 898	OTHER ALLIED PAINT PRODUCTS, INCLUDING BRUSH CLEANERS											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Paint Brush Cleaners												
Formula I												
Benzene or	}	25-90		X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian
Toluene or				X	0	X		X			Merck 8 III-B Heukelekian	
Xylene				X	0	X					Merck 8 III-B Heukelekian	
Acetone		10-40		X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Methyl Alcohol		10-15		X	X	0	0	X				CCD Merck 8 Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2851 898	OTHER ALLIED PAINT PRODUCTS, INCLUDING BRUSH CLEANERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Naphtha Solvent or Stoddard Solvent Naphthas and Related Compounds (Kerosene) if Present as Principal Constituents Would Have a High Toxicity Rating Formula II Kerosene Oleic Acid Ammonia (Strong) Alcohol (Denatured)			0-5 <										

x - may be an effect
o - no effect
blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Solvents					Gleason									
Alcohols														
N-Butyl						X				X				Merck 8 Toxic Sub
Sec.-Butyl (see Butyl Alcohol)						X		0						Merck 8
Cyclohexanol						X	X	X	0	X		X		CCD Toxic Sub Heukelekian
Ethyl							X	0	0	X				CCD Heukelekian Lamb
Glycols									0					Hackh's
Isobutyl							X	0	0					CCD
Isopropyl							X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Methyl				X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Methyl Amyl							0					CCD
Proprietary (Denatured Ethyl)					X	0	0	X				CCD Heukelekian Lamb
N-Propyl					X	0	0	X				CCD Heukelekian
Alcohol Amines												
Diethanolamine				X	X		0	X				Hackh's Merck 8 III-B Lamb
Monoethanolamine				X	X		0	X				Merck 8 CCD III-B Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Triethanolamine				X	X		X	X				Merck 8 CCD III-B Heukelekian Lamb	
Chlorinated Solvents													
Carbon Tetrachloride				X	0	X	0	X				CCD Toxic Sub III-B Heukelekian	
Ethylene Dichloride				X	X	X		X				Merck 8 III-B Heukelekian Mills 8	
Methyl Chloroform (1,1,1-tri-chloroethane)				X		X						Merck 8 III-B	
Methylene Chloride				X		X	0					Merck 8 III-B	
Monochlorobenzene (see Chlorobenzene)				X		X	0	X				Merck 8 Toxic Sub	

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Orthodichlorobenzene (see Dichlorobenzene)				X		X						Merck 8 III-B	
Perchloroethylene				X		X	0	X				Merck 8 III-B	
Propylene Dichloride						X	0	X				CCD	
Trichlorobenzene				X		X	X					CCD III-B	
Trichloroethylene				X		X		X				Merck 8 III-B	
Trichlorotrifluoroethane													
Esters													
Amyl Acetate				X		X	0					Hackh's Toxic Sub	
N-Butyl Acetate				X	X	X	0	X				CCD Toxic Sub Heukelekian Lamb	

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Secondary Butyl Acetate						X	0					CCD
Ethyl Acetate					X	X	0	X				CCD Heukelekian Lamb
Isobutyl Acetate				X		X	0					Merck 8
Isopropyl Acetate				X	X	X	0					Merck 8 Heukelekian Lamb
Methyl Acetate						X	0	X				CCD
Methyl Amyl Acetate (see Methyl Amyl Alcohols)							0					CCD
N-Propyl Acetate							0	X				CCD
Hydrocarbons												
Aliphatics												

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Aromatics, Chiefly Benzene or			X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian
Toluene or			X	0	X		X				Merck 8 III-B Heukelekian
Xylene			X	0	X						Merck 8 III-B Heukelekian
Naphthenes											
Terpenes											
Ketones											
Acetone			X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Cyclohexanone			X			X	X				CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Diacetone Alcohol					X		0	X				CCD Toxic Sub
Diisobutyl Ketone							0	X				CCD
Ethyl Amyl Ketone							0	X				CCD
Glycol Ethers												
Isophorone						X	0					CD
Methyl Ethyl Ketone												
Methyl Isobutyl Ketone					X	X	0	X				CCD Lamb
Other Common Solvents Are:												
Aniline					X	X	X	X	X	X		Merck 8 Toxic Sub Heukelekian III-B
Carbon Disulphide					X	X	X	0				CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Cresylic Acid				X								CCD
Kerosene or					X							Heukelekian
Gasoline or				X	X	X		X				Merck 8 Heukelekian
Other Petroleum Solvents												
Mineral Spirits				X								Merck 8
Phenols				X	X	0	0	X				Merck 8 Toxic Sub III-B Heukelekian Mills 8 Vail
Turpentine							X	X				CCD
may contain:												
Ammonia				X		0	0	X				Merck 8 Hackh's CCD III-B Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cyclohexane			X			0	X				CCD Toxic Sub
Essential Oils			X		X	X	X		X		CCD, K-0
Morpholine			X	X		0	X				CCD Lamb Heukelekian
Nitrobenzene			X	0	X	X			X		CCD Heukelekian
Nitroethane					0	0					CCD
Nitromethane					0	0					CCD
1-Nitropropane					X	0					CCD
2-Nitropropane					X	0					CCD
Resins, Natural					X	X					CCD
Resins, Synthetic											
Soaps											

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Tetrahydrofuran						0	0	X				CCD	
Thinners													
Acetone		4-20		X	X		0	X				CCD Toxic Sub Heukelekian Lamb	
Aliphatic Petroleum Solvents		0-100											
Aromatic Hydrocarbon Solvents (Xylene or		0-100		X	0	X						Merck 8 III-B Heukelekian	
Toluene)				X	0	X		X			Merck 8 III-B Heukelekian		
Cellulosolve Acetate		0-10				0	0	X				CCD	
Diacetone Alcohol		0-10		X			0	X				CCD Toxic Sub	

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ethyl Alcohol	0-10			X	0	0	X				CCD Heukelekian Lamb
Ethyl Amyl Ketone	0-10					0	X				CCD
Isopropyl Alcohol	4-10			X	0	0					CCD Heukelekian
Methyl Ethyl Ketone (see Ketones)	24										
Methyl Isobutyl Ketone (see Ketones)	0-18										
Naphthol	27-38			X	0	0					Hackh's Heukelekian
Naphthenes	0-50										
Toluene	10-25		X	0	X		X				Merck 8 III-B Heukelekian
Xylene	0-60		X	0	X						Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Thinners may contain:													
Butanol or			10		X				X				Merck 8 Toxic Sub
Isobutanol						X	O	O					CCD Heukelekian
Diisobutyl Ketone			0-5					O	X				CCD
Esters, Particularly Butyl Acetate or			0-20		X	X	X	O	X				CCD Toxic Sub Heukelekian Lamb
Often Ethyl Acetate or			0-20			X	X	O	X				CCD Heukelekian Lamb
Rarely Amyl Acetate or also					X		X	O					Hackh's Toxic Sub
Isopropyl Acetate or					X	X	X	O					Merck 8 Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Isobutyl Acetate		0-20	X		X	0					Merck 8
Nitromethane		20			0	0					CCD
Nitroethane					0	0					CCD
2-Nitropropane					X	0					CCD
Lacquer Thinners											
Ethyl Alcohol		0-5		X	0	0	X				CCD Heukelekian Lamb
Ethyl Acetate		20-21		X	X	0	X				CCD Heukelekian Lamb
Butyl Alcohol		10-11	X				X				Merck 8 Toxic Sub
Butyl Acetate		20-23	X	X	X	0	X				CCD Toxic Sub Lamb Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2851 9	MISCELLANEOUS PAINT PRODUCTS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Toluene	25-28		X	O	X		X				Merck 8 III-B Heukelekian
Aliphatic Hydrocarbons may contain:	16-20										
Amyl Acetate			X		X	O					Hackh's Toxic Sub
Isopropyl Acetate			X	X	X	O					Merck 8 Heukelekian Lamb
Isopropyl Alcohol				X	O	O					CCD Heukelekian
Pigment					X	X					CCD
Xylene			X	O	X						Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2861	GUM AND WOOD CHEMICALS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Wood													
Resin, Natural							X	X					CCD
Zein (Corn Protein)					O			X	O				CCD
Denatured Alcohol						X	O	O	X				CCD Heukelekian Lamb
Ethyl Triethanol Amine													
Glycol Humectant													
Naphthenic Acid							X	X			X		CCD
Copper Hydrate					X		X	X					CCD
Mineral Spirits					X								Merck 8
Copper Naphthenate								X					CCD
Zinc Naphthenate								X					CCD
Copper Linoleate													

x - may be an effect
 o - no effect
 blank - no information

2861	GUM AND WOOD CHEMICALS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%	REF.									
	Copper Oleate			X		X	X					CCD Merck 8
	Pentachlorophenol			X		X		X				Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2879	AGRICULTURAL CHEMICALS, N.E.C.										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Herbicides											
Chlorinated Aryloxyalkanoic Acids											
s-Triazines											
Urea					0	X	X				Merck 8 CCD
Carbamates											CCD
Thiocarbamates											
Amides											CCD
Chlorinated Aliphatic Acids											
Chlorinated Benzoic Acids											
Phenols			X	X	0	0	X				Merck 8 III-B Toxic Sub Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2879	AGRICULTURAL CHEMICALS, N.E.C. (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Substituted Dinitroanilines				X		X	X					Merck 8	
Bipyridium													
Inorganic Compounds -- Sulfur, Boron and Arsenic Compounds													
Fungicides													
Sulfur or				X		X	X					Merck 8	
Polysulfides													
Heavy Metals (Copper Sulfate or				X		0	X					CCD Toxic Sub	
Copper Silicate or												CCD	
Organic Mercury Compounds (see Mercury)				X		X	X					CCD Merck 8 III-B	
Quinones				X		X	X	X				Merck 8	
Organic Sulfur Compounds (Dithiocarbamates)													

x - may be an effect
 o - no effect
 blank - no information

2879	AGRICULTURAL CHEMICALS, N. (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Imidazolines or Guanidines Trichloromethylthiocarboximides			X		0	0					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Furniture Cement												
Animal Wood Glue												
Water	59.8											
Animal Glue	40.0											
Dowicide A	0.2											
Dry Casein Glue												
Casein	72				X	X	X	0				CCD Heukelekian
Calcium Hydroxide	19			X		X	X					Merck 8
Sodium Fluoride	8			X		X	X					CCD Merck 8 III-B
Kerosene	1				X							Heukelekian
Marine Glues												
Dry Casein Glue												

x - may be an effect

o - no effect

blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Casein	72.0			X	X	X	0				CCD Heukelekian
Calcium Hydroxide	19.0		X		X	X					Merck 8
Sodium Fluoride	8.0		X		X	X					CCD Merck 8 III-B
Kerosene	1.0			X							Heukelekian
Library Paste											
Formula I											
Corn, Wheat, or potato Dextrin	35			X	0	X	X				Merck 8 Heukelekian
Glucose	5		X	X	0	X					CCD Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Phenol or	0.2		X	X	0	0	X					Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Sodium Orthophenylphenate					0	X						CCD
Oil of Wintergreen	0.01		X		X	X	X			X		CCD Merck 8
Glycerine	trace		X	X	0	X	0					CCD Merck 8 III-B Heukelekian
Water	60											
may contain:												
Borax			X		0	X						CCD Toxic Sub
Trisodium Phosphate					0	X			X			Merck 8

x - may be an effect

o - no effect

blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II											
Gums, Natural	45				0						CCD
Glycerine	5		X	X	0	X	X				CCD Merck 8 III-B Heukelekian
Defoamer	0.1										CCD
Formaldehyde	0.2		X	X	0	0	X				CCD Heukelekian
Phenol	0.1		X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Water	to 100										
may contain:											
Dowicide and Other Preservatives											

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Nitrate					0	0	0	X			CCD
Library Paste											
Formula II (Cont'd)											
may contain:											
Mineral Spirits			X								Merck 8
Sodium Pentachlorophenate			X		0	X					CCD
Animal Glue											
Sodium Bicarbonate			X		0	X					Merck 8
Aluminum Sulfate			X		0	X					CCD Merck 8 Toxic Sub
Benzoate											
Bentonite					X	X					CCD Merck 8

x - may be an effect

o - no effect

blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Sodium Fluosilicate			X		X	X						Hackh's CCD
Glue, General Purpose												
Dextrin Mucilage												
Dextrin	30.0			X	O	X	X					Merck 8 Heukelekian
Borax	5.0		X		O	X						CCD Toxic Sub
Phenol	0.2		X	X	O	O	X					Merck 8 III-B Toxic Sub Mills 8 Vail Heukelekian
Water	64.8											
Gum Arabic Mucilage												
Gum Arabic	30.0				O	X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%	REF.									
	Formaldehyde	0.20		X	X	0	0	X				CCD Heukelekian
	Phenol	0.10		X	X	0	0	X				Merck 8 III-B Toxic Sub Mills 8 Vail Heukelekian
	Glycerin	3.00		X	X	0	X	0				CCD Merck 8 III-B Heukelekian
	Oil of Wintergreen	0.01		X		X	X	X		X		CCD Merck 8
	Water	6.69										
	Flexible Glue Type											
	Animal Glue	33										
	Sucrose	33			X	0	X	0				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Polyethylene Glycol	0.3		X	X	O	X					Merck 8 III-B Heukelekian
Sodium Orthophenylphenate	0.1				O	X					CCD
Phenol	0.1		X	X	O	O	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Methyl Salicylate	0.01		X		X	X	X		X		CCD Merck 8
Water	to 100										
may contain:											
Alkali			X								CCD
Urea Formaldehyde Powder							O				CCD
Casein Glues											

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Casein			15		X	X	X	O				CCD Heukelekian
Urea			10			O	X	X				Merck 8 CCD
Zinc Oxide			1			X	X	O				CCD
Ammonium Hydroxide			1	X		O	O	X				CCD Merck 8 III-B
Sodium Orthophenylphenate			0.25			O	X					CCD
Water			72.25									
Film Cement												
Cotton Base			12-18			X						CCD
Acetone			18-24	X	X		O	X				CCD Toxic Sub Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Methanol	0.5-1	X	X	O	O	X				CCD Merck 8 Heukelekian Lamb
	Methyl Cellosolve Acetate	18-24									
	Ethylene Dichloride	34-40	X	X	O		X				Merck 8 III-B Mills 8 Heukelekian
	may also contain:										
	Amyl Acetate		X		O	O					Hackh's Toxic Sub
	Ethyl Acetate			X	X	O	X				CCD Heukelekian Lamb
	Dioxane		X			O	X				CCD
	Methylene Chloride		X		X	O					Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Butyrolactone			X			0	X				CCD Toxic Sub
Cotton Base contains:											
Nitrocellulose	16					X					Hackh's
Ethanol	7			X	0	0	X				CCD Heukelekian Lamb
Sec. -Butyl Acetate	30				X	0					CCD
Methyl Ethyl Ketone	40										
Isopropanol	7			X	0	0					CCD Heukelekian
Microfilm Cement											
Cotton Base	70-80				X						CCD
Acetic Acid	1-3		X	X		0	X				CCD Heukelekian
Cotton Base contains:											

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Nitrocellulose	16					X					Hackh's
Ethanol	8.5			X	O	O	X				CCD Heukelekian
Isopropyl Alcohol	7.0			X	O	O					CCD Heukelekian
Secondary Butyl Acetate	30.5			X	O						CCD
Toluene	38		X	O	X		X				Merck 8 III-B Heukelekian
Gasket Cement											
Formula I											
Batu Gum (Scraped)	50.0										
Toluene	7.5		X	O	X		X				Merck 8 III-B Heukelekian
Mineral Spirits	42.5		X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2891 1	GLUES, ADHESIVES, AND SIZES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula II											
Manila Resin	60										
Denatured Alcohol	40										
may contain:											
Blown Vegetable Oil									X		
Isopropyl Alcohol				X	0	0					
											CCD
											CCD
											Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 171	SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Glue, General Purpose											
Epoxy Resin		65									
Polyamide Resin		35									
Plastic Putty											
Gum											
Gum Solution											
Rosin					X	X					CCD
Acetone			X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Methyl Alcohol			X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Methyl Acetate					X	0	X				CCD

x - may be an effect
 o - no effect
 blank - no information

2891 171 SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASES RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Glycerin		X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Butyl Alcohol		X				X				Merck 8 Toxic Sub
Whiting (see Pigment)				X	X					CCD
Wood Flour						X				CCD
Dope Solution										
Cellulose Acetate or					X					CCD
Cellulose Nitrate					X					CCD
Acetone		X	X	O		X				CCD Toxic Sub Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2891 171	SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Methyl Alcohol					X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Methyl Acetate							X	0	X				CCD
Metal Cements													
Inert Ingredients			55-75										
Vinyl			5-10										
Ketone Solvents			15-25										
Diethyl Phthalate			0.5-1				X	0	0				CCD
Butyl Acid Phosphate			0.5-1				X	0					CCD
may contain:													
Epoxy Resin Compounds													
Iron Powder							X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2891 171 SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Contact Cement:											
Resin Latex Type											
Neoprene Latex	50					X					CCD
Resin, Natural	33.7				X	X					CCD
Water	14.25										
Casein	1.2			X	X	X	O				CCD Heukelekian
Ammonium Hydroxide	trace		X			O	X				CCD Merck 8 III-B
Sodiumorthophenylphenate	trace				O	X					CCD
Sodium Pentachlorophenate	trace		X		O	X					CCD
2,2-Methylene-bis (4-methyl-6- tertiary-butylphenol)	trace										
trace = less than 5%											

x - may be an effect
 o - no effect
 blank - no information

2891 171	SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Marine Glues													
Resorcinol-Formaldehyde Resin													
Tile Adhesives													
Epoxy Resin			65										
Polyamide Resin			35										
Resinous													
Formula I													
Polyvinyl Acetate Emulsion			79.89		0		X	0	0				CCD
Dibutyl Phthlate			15.00		X	X		0					Hackh's Toxic Sub III-B Heukelekian
Silicones			0.01										CCD
Methylcellulose			0.10		X	X	0	X					CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 171 SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Water	4.90										
Phenol	0.10		X	X	O	O	X				Merck 8 III-B Toxic Sub Mills 8 Vail Heukelekian
Formula II											
Styrene Butadiene Latex	50					X					CCD
Resin, Natural	33.7				X	X					CCD
Casein	1.2			X	X	X	O				CCD Heukelekian
2,2-Methylene-bis (4-methyl-6- tertiary-butylphenol	0.25										
Sodiumorthophenylphenate	0.1				O	X					CCD
Ammonium Hydroxide	0.2		X			O	X				CCD Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2891 171 SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Pentachlorophenate	0.1		X		O	X					CCD
Solubilized Copper 8 Quinolinolate	0.1					X					CCD
Defoamer	0.1										CCD
Water	to 100										
Formula III											
Polyvinyl Butyral	13.3										
Rosin	25.0				X	X					CCD
Castor Oil, Hydrogenated	44.0					X	X				Merck 8
Mixture of Stearamide or					X	O					CCD
Palmitamide or	4.4'										
Oleamide						X					CCD
Titanium Dioxide	1.9		X		X	X					Merck 8
Kaolin	10.4				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2891 171 SYNTHETIC RESIN ADHESIVES MADE FROM PURCHASED RESINS, INCLUDING ALL TYPES OF BONDING AND LAMINATING ADHESIVES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
may contain:										
Alcohol			X	O	O	X				CCD Heukelekian Lamb
Paraffin Wax				X	X					Merck 8
Vinyl Chloride				X		X				CCD

x - may be an effect
 o - no effect
 blank - no information

2891 173 RUBBER AND SYNTHETIC RESIN COMBINATIONS		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Tile Adhesives											
Rubber/Resin Emulsion											
Synthetic Rubbers											
Rosin Gum Emulsion	33.7				X	X					CCD
Butadiene Styrene Latex	50					X					CCD
Water	14.25										
Casein	1.2			X	X	X	O				CCD Heukelekian
Ammonium Hydroxide	0.2		X			O	X				CCD Merck 8 III-B
Sodium Orthophenylphenate	0.1				O	X					CCD
Sodium Pentachlorophenate	0.1		X		O	X					CCD
2,2-Methylene-bis (4-methyl-6- tertiary-butylphenol	0.25										

x - may be an effect
 o - no effect
 blank - no information

2891 173	RUBBER AND SYNTHETIC RESIN COMBINATIONS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Cunilate 2778-I, colloid 581-B		0.2					X					CCD
Rubber/Resin Solvant		each										
Rubber, Synthetic												
Resins, Synthetic		30-35										
Inert Mineral Fillers		40-50										
Petroleum Solvents or Alcohol Solvents		15-30										

x - may be an effect
 o - no effect
 blank - no information

2891 178 ASPHALT BASE ADHESIVES		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Tile Adhesives											
Inert Asphalt	40				X	X	X				CCD
Inert Mineral Fillers	30										
Water	30										
Asphalt	50-60				X	X	X				CCD
Petroleum Solvent	30-50										
Asbestos Fiber	0-15		X								Merck 8
Limestone or Other Fillers	0-20										

x - may be an effect
 o - no effect
 blank - no information

2891 179	OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Patching Cements												
Portland Cement (Fused Lime and Clay)			67				X					CCD
Calcium Hydroxide			25		X	X	X					Merck 8
Sodium Chloride			5		X	O	X					Merck 8 III-B
Titanium Dioxide			3		X	X	X					Merck 8
may contain:												
Organic Alkaline Amines												
Wall Patching Plaster												
Plaster of Paris			34									
Dextrin			4			X	O	X	X			Merck 8 Heukelekian
Pumice Powder			4				X					CCD
Concrete Patcher												

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Sand											
Portland Cement						X					CCD
Leather Glue											
Polyvinyl Acetate			0		X	0	0				CCD
Model Cements											
may contain:											
Nitrocellulose	15					X					Hackh's
Acetone	30-85		X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Cellulose Acetate	8-15					X					CCD
Isopropanol	12			X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		TYPICAL CHEMICAL COMPOSITION	%	. REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
		Dibutyl Phthalate	3		X	X		0					Hackh's III-B Toxic Sub Heukelekian
		Hexane	30		X		X	0	X				CCD Merck 8
		Ethyl	30			X	X	0	X				CCD Heukelekian Lamb
		Toluol	20-25										
		Naphtha	15-20		X		X	0	X		X		CCD Merck 8
		Ethanol	5-10			X	0	0	X				CCD Heukelekian Lamb
		Camphor	2		X		X		X				Merck 8 Toxic Sub
		may also contain:											

x - may be an effect
 o - no effect
 blank - no information

2891 179	OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Polystyrene								0					CCD
Builders													
Polyvinyl Acetate			80		0		X	0	0				CCD
Diethyl Phthalate			15				X	0	0				CCD
Silicone			0.01										CCD
Methylcellulose			0.10		X	X	0	X					CCD Merck 8 Heukelekian
Phenol			0.10		X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Hardener:													
Portland Cement								X					CCD
Asbestos or Sand					X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2891 179	OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
may contain:												
Fungicides												
Canvas												
Polyvinyl Acetate												
Polyvinyl Acetate Emulsion		79.89		0		X	0	0				CCD
Diethyl Phthalate		15.00				X	0	0				CCD
Silicone Defoamer		0.01										CCD
Methylcellulose		0.10		X	X	0	X					CCD Merck 8 Heukelekian
Water		4.9										
Phenol		1.0		X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 179	OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Nitrocellulose Cement													
Nitrocellulose			20.0					X					Hackh's
Acetone			39		X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Methyl Acetate			39				X	O	X				CCD
Camphor			2		X		X	X	X				Merck 8 Toxic Sub
Neoprene Latex Adhesive													
Neoprene Latex (50%)			90.0					X					CCD
Casein			1.0			X	X	X	O				CCD Heukelekian
Ammonia (28%)			0.2		X		O	O	X				Hackh's CCD Merck 8 Toxic Sub III-B

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dowicide	0.1										
Water	8.7										
Plastic Cement											
Formula I											
Polyvinyl Acetate	79.8		0		X	0	0				CCD
(Kaolin)	15.5				X	X					CCD
Polyvinyl Alcohol	5.0				0	X					Merck 8
Sodium Orthophenylphenate	0.1				0	X					CCD
Colloid (Sanctioned by FDA)	0.1										CCD
Formula II											
Polystyrene	21					0					CCD
Benzene	43		X	X	X	0	X				Merck 8 Toxic Sub III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)											REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Toluene	24		X	O	X		X				Merck 8 III-B Heukelekian
Acetone	8		X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Naphtha	4		X		X	O	X		X		CCD Merck 8
Pipe Joint Cement Formula I											
Chalk (Calcium Carbonate, Precipitated)	32		X		X	X	O				Merck 8
Kaolin	33.5				X	X					CCD
Linseed Oil	33.0					X	X		X		CCD
Litharge	1.5		X		X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Formula II											
Black Strap Molasses	40-50										
Amorphous (Graphite)	40-50					X					CCD
Vermiculite	0-30				X						CCD
Bentonite	0-15				X	X					CCD Merck 8
Lithopone	0-15					X					CCD
Sodium Pentachlorophenate	1		X		O	X					CCD
may contain:											
Linseed Oil						X	X		X		CCD
Slate						X					CCD
Titanium Dioxide			X		X	X					Merck 8
Furnace Cement											
Sodium Silicate	40-60										

x - may be an effect

o - no effect

blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)											REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Asbestos Fiber	10-20		X								Merck 8
Slate	30-50					X					CCD
Carbon Black	0-2		X		X	X					CCD Toxic Sub
Water	0-15										
may contain:											
Caustic Soda			X		O						Merck 8
China Cement											
Water Emulsion Type											
Polyvinyl Acetate Emulsion	85-100		O		X	O	O				CCD
Dibutyl Phthalate	0-15		X	X		O					Hackh's III-B Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2891 179		OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Solvent Type													
Cellulose Nitrate		15-25						X					Hackh's
Isopropyl Alcohol		5-20				X	0	0					CCD Heukelekian
Acetone		20-40			X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Toluol		20-30											
Butyl Acetate		0-5			X	X		0					Hackh's III-B Toxic Sub Heukelekian
may contain:													
Methyl Ethyl Ketone													
Butyl Alcohol					X				X				Merck 8 Toxic Sub

x - may be an effect

o - no effect

blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
		Hexane			X		X	0	X				CCD Merck 8
		Isopropyl Acetate			X	X	X	0					Merck 8 Heukelekian Lamb
		Ethyl Acetate				X	X	0	X				CCD Heukelekian Lamb
		Camphor			X		X		X				Merck 8 Toxic Sub
		Methyl Acetate					X	0	X				CCD
		Ethyl Alcohol				X	0	0	X				CCD Heukelekian Lamb
		Heptane			X		X						Merck 8
		Methyl Isobutyl Ketone				X	X	0	X				CCD Lamb

x - may be an effect
 o - no effect
 blank - no information

2891 179 OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Glue, General Purpose											
Nitrocellulose Cement											
Nitrocellulose	20					X					Hackh's
Acetone	39		X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Methyl Acetate	39				X	O	X				CCD
Camphor	2		X		X		X				Merck 8 Toxic Sub
Polyvinyl Acetate Wood Glue											
Polyvinyl Acetate Emulsion	97		O		X	O	O				CCD
Dibutyl Phthlate	3		X	X		O					Hackh's III-B Toxic Sub Heukelekian

x - may be an effect
o - no effect
blank - no information

2891 179	OTHER FORMULATED AND PREPARED ADHESIVES, EXCEPT RUBBER CEMENT, INCLUDING LACQUER ADHESIVES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formula III Sodium Silicate Vinyl Wood Glue Polyvinyl Acetate Emulsion Dibutyl Phthlate	97 3		0 X	X	X	0 0	0				Merck 8 CCD Hackh's III-B Toxic Sub Heukelekian

x - may be an effect
o - no effect
blank - no information

2891 183	CEMENTS: FURNACE, PORCELAIN, ETC., EXCEPT RUBBER CEMENT											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Tile Adhesives			Gleason									
Water Base												
Waste Sulfite Liquor		50										
Preservative		0.05										
Inter Mineral Filler		50										
Formula II												
Portland Cement							X					CCD
may contain:												
Calcium Carbonate						X	X	0				CCD
China Clay (see Kaolin)						X	X					CCD
Dryer (Containing Lead)												
Magnesium Oxide				X		X	X	0				Merck 8
Magnesium Silicate				X								Merck 8

x - may be an effect
 o - no effect
 blank - no information

2891 183	CEMENTS: FURNACE, PORCELAIN, ETC., EXCEPT RUBBER CEMENT (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Mercuric Oxide (Red or Yellow)				X		X	X					CCD
Mineral Thinner												
Phenyl Mercuric Oleate				X		X	X					CCD
Titanium Calcium Pigment												
Vegetable Oil										X		

x - may be an effect
 o - no effect
 blank - no information

2891 19	SIZES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Wall Sizes				Gleason									
Dextrin						X	O	X	X				Merck 8 Heukelekian
Animal Glue													
Sodium Bicarbonate					X		O	X					Merck 8
Aluminum Sulfate					X		O	X					CCD Merck 8 Toxic Sub
Bentonite							X	X					CCD Merck 8
may contain:													
Methyl Alcohol					X	X	O	O	X				CCD Merck 8 Heukelekian Lamb
^ Vinyl Acetate							X	O					CCD

x - may be an effect
 o - no effect
 blank - no information

2892	EXPLOSIVES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Three Major Explosives in Current Use				K-O, ADL									
Formula I													
Ammonium Nitrate			100				0	0					CCD
Formula II													
Mixtures Based on Ammonium Nitrate (e.g. Amatol: Ammonium Nitrate or							0	0					CCD
TNT (Trinitrotoluene)							X	X					CCD
Formula III													
Cyclotrimethylenetrinitramine (Cyclonite, RDx)			100		X		X	X					CCD Toxic Sub
Formula IV													
Composition A-3													
Cyclonite			91		X		X	X					CCD
Petrolatum			9										

x - may be an effect
 o - no effect
 blank - no information

2892	EXPLOSIVES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Formula V												
Composition C-4												
Cyclonite		91		X		X	X					CCD
Polyisobutylene		2.1										
Motor Oil		1.6										
di-(2-ethylhexyl)sebacate or		5.3				X	X			X		CCD
di-(2-ethylhexyl)adipate						X	X					CCD
Formula VI												
3 alpha or 2,4,6-Trinitrotoluene (TNT)		100				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
LP Newspring Black				K-0									
Carbon Black			10		X		X	X					CCD Toxic Sub
Induline Toner			2 or 3					X					Hackh's
Mineral Oil (10P)			85 or 67										
Mineral Oil (Low Viscosity)			3 or 15										
LP Moisture-Set Light Blue													
Titanium Dioxide			25		X		X	X					Merck 8
Alkali Blue			3					X					CCD
Iron Blue			9				X	X					CCD
Fumarated Ros/TEG			50 or 35										
Mazein/TEG			20 or 15										

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Petroleum Wax			10				X	X			X		Merck 8
TEG			3										
HS Publication Blue													
Phthalocyanine Blue			10					X					
Alumina Hydrate			15				X	X					CCD
Pentaerythritol			65				O	X					CCD
Polyethylene Wax Compound			5										
Aliphatic HC Solvent (470°F)			5										
Gloss LP Oleoresinour Red													
Permanent 2B Red			25										
Clay or			5										CCD
Alumina Hydrate							X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Phenolic Res or } China Wood Oil }		50	K-0								
Ester Gum or } Linseed Oil }		15.5				X					CCD
Cobalt Naphthenate		2			X	X			X		CCD
Lead Naphthenate		2				X					CCD
Eugenol		0.5			X	X	X		X		CCD
Water-Based Inks											
Barium Lithol Red		15.0					X				
Microcrystalline Wax		1.0				X	X				CCD Merck 8
Alpha Protein		5.0									
Esterified Fumarated Rosin		10.0									

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
26°Beryllium Ammonium Hydroxide (29.1% NH ₃ , by wt)	2.0										
Defoamer	5.0										CCD
Water	61.5										
Acrylic Inks											
Titanium Dioxide	30.0		X		X	X					Merck 8
Microcrystalline Wax	1.0				X	X					CCD Merck 8
Alcohol Soluble Acrylic Resin	20.0				X	O					CCD
n-Propyl Acetate	17.0					O	X				CCD
Ethanol	32.0			X	O	O	X				CCD Heukelekian Lamb
Dye Inks											
Methyl Violet	10.0			O	O	X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tannic Acid	10.0		X	X	O	X	X				Merck 8 Heukelekian
Ethanol	35.0			X	O	O	X				CCD Heukelekian Lamb
5# Cut Shellac	45.0		X		X	X					CCD Merck 8
Polyamide Inks											
Phthalocyanine Blue	13.0					X					
Polyethylene Wax	1.0										
Polyamide Resin	24.0										
n-Propyl Alcohol	30.0			X	O	O	X				CCD Heukelekian
Narrow Cut VM&P Naphtha (bp 245 to 290°F)	30.0										

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Nitrocellulose Inks												
Titanium Dioxide			35.0		X	X	X					Merck 8
0.25-sec SS Nitrocellulose			7.0									
Esterified Fumarated Rosin			10.0									
Dibutyl Phthalate			2.0		X	X	0					Hackh's Toxic Sub III-B Heukelekian
Microcrystalline Wax			1.0			X	X					CCD Merck 8
Propylene Glycol Monoethyl Ether (retarder)			5.0									
n-Propyl Acetate			10.0				0	X				CCD
Anhydrous Ethanol			30.0									
Stencil Inks												
Pigments			10-30			X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Solvents				40-60		X		X	0	X		X		CCD Merck 8 Merck 8 Heukelekian III-B Merck 8 Heukelekian III-B
Naphthas Often Used or						X	0	X		X				
Toluene or						X	0	X						
Xylene				5-15		X	0	X						Merck 8 Heukelekian III-B CCD Merck 8
Synthetic Resins														
Fluorescent Inks														
Fluorescent Pigments									X	X				
Alkyd Resin Vehicle														
may contain:														
Esters														
Ketones														

x - may be an effect
 o - no effect
 blank - no information

2893	PRINTING INK (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Urea						O	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2893 03	LITHOGRAPHIC AND OFFSET INKS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Quick Set Litho Black		K-0									
Carbon Black	16 or 18		X		X	X					CCD Toxic Sub
Alkali Blue Toner	4 or 6					X					
Phenolic Res/Oil (HC Solvent, 530°F)	63 or 58										
Bodied Linseed Oil	10 or 6					X	X		X		CCD
Cobalt Linoleate	2 or 2				X	X					CCD
Aliphatic HC Solvent (530°F)	5 or 10										
Metal Decorating Litho White											
Titanium Dioxide	50 or 55		X		X	X					Merck 8
Drying Alkyd	45 or 25										
Hard Res/Linseed Oil	0 or 15										

x - may be an effect
 o - no effect
 blank - no information

2893 03	LITHOGRAPHIC AND OFFSET INKS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Manganese Naphthenate		1 or 2					X					CCD
Aliphatic HC Solvent (530°F)		4 or 3										

x - may be an effect
 o - no effect
 blank - no information

2893 04	GRAVURE INKS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Type A Publication Blue Ink		K-0									
Phthalocyanine Blue Pigment	11.0					X					CCD
Clay	17.0										
Metallated Rosin	35.0										
Lactol Spirits (Aliphatic Hydrocarbon Solvent)	37.0				X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

2893 08	FLEXOGRAPHIC AND SCREEN PRINTING INKS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Duplicating Inks		Gleason									
Dyes	2-10					X					
Alcohols	40-50			X	O	O	X				CCD Heukelekian Lamb
Glycol-Ethers	40-50										
Water	10-30										
may contain:											
Glycols						O					Hackh's
Oils									X		
Resins, Natural					X	X					CCD
Resins, Synthetic											
Hektograph Inks											
Mineral Acids	2										

x - may be an effect
 o - no effect
 blank - no information

2893 08 FLEXOGRAPHIC AND SCREEN PRINTING INKS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dye	5-10					X					
Solvents											
Water											
Glycerine			X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Glycols	75-85					O					Hackh's
Alcohol				X	O	O	X				CCD Heukelekian Lamb
Glycol Ethers											
Mimeograph Inks											
Oil Base											
Carbon Black	5-10		X		X	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2893 08 FLEXOGRAPHIC AND SCREEN PRINTING INKS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dye	0-2					X					
Mineral Oil	60-80										
Rosin and Rosin Derivatives	0-20				X	X					CCD
Water Base											
Carbon Black	0-5		X		X	X					CCD Toxic Sub
Dye	0-5					X					
Ethylene Glycol or Other Poly-hydroxy Compounds	10-30		X	X							Merck 8 III-B Heukelekian Lamb
Surface Active Agents	0-2		X								III-B
Water Soluble Thickener	2-8										
Water	50-70										

x - may be an effect
 o - no effect
 blank - no information

2893 08 FLEXOGRAPHIC AND SCREEN PRINTING INKS (Cont'd)		TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Emulsion Inks													
	Carbon Black		5-10		X		X	X					CCD Toxic Sub
	Dye		0-2					X					
	Mineral Oil		40-90										
	Water		5-60										
	Emulsifier		2-20										CCD
Silk Screen Inks													
	Alkyd Resin												Merck 8
	Organic and Inorganic Pigments (see Pigments)						X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2899 3	ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N. E. C.												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Fireworks				Gleason									
Oxidizing Agents													
Potassium Nitrate					X		O	X		X			Merck 8
Potassium Chlorate					X		O	X					CCD Merck 8
Barium Nitrate					X		O	X					CCD
Potassium Perchlorate							O	X					CCD
Fuel and Binders													
Charcoal													CCD
Fossil Gums								X					CCD
Gelatin						X		X	O				CCD Heukelekian
Glue													
Iron Powder							X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2899 3		ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N. E. C. (Cont'd)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lampblack							X					CCD
Lead Nitrate				X		O	X		X			Merck 8
Magnesium				X			X					Merck 8
Lactose					X	O	X	O				CCD Heukelekian
Petroleum						X	X			X		Merck 8
Resins, Natural						X	X					CCD
Resins, Synthetic												
Shellac				X		X	X					CCD Merck 8
Starch					X	X	X					CCD Heukelekian
Stearin						X	O	O				CCD
Sugar					X	O	X	O				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 3		ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N. E. C. (Cont'd)											
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sulfur					X		X	X					Merck 8
Zinc Powder							X	X					CCD
Pigments													
(Phosphorus, mercury, sulfocyanate, antimony, copper, salts, e.g., arsenate, carbonate exalate, oxide, sulfate, sulfide, and chloride.)													
Ink Removers, Eradicators													
(Ink Eradicators Usually Contain Bleaches)													
Acid Solution													
Tartaric Acid						X	O	X	O				CCD Heukelekian
Phosphoric Acid					X		O	O	O				CCD
Citric Acid			1-4		X	X	O	X	O				CCD Toxic Sub Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 3	ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N. E. C. (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Mineral Acid													
Alkaline Solution													
Sodium Hypochlorite			3-4				0	X	X				CCD
Water			96										
may contain:													
Sodium Chloride					X		0	X		•			Merck 8 III-B
Sodium Phosphate													
Formula III													
Ammonium Sulfide			5										
Oxalic Acid			5		X	X	0	0					CCD Merck 8 Heukelekian
(Separate Solutions Applied Alternately To Ink Stains)													

x - may be an effect
 o - no effect
 blank - no information

2899 3		ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula IV												
Citric Acid		50		X	X	O	X	O				CCD Toxic Sub Heukelekian
Alum		50				O	X	O				Merck 8 CCD
(Dry Rubbed Into Stain Followed by Water)												
Ballpoint Formula												
Alcohols					X	O	O	X				CCD Heukelekian Lamb
Glycols-Ethers												
Surfactants												
Naphthas												
Chlorinated Hydrocarbons				X								Gleason

x - may be an effect
 o - no effect
 blank - no information

2899 3		ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Emulsifiers													CCD
Laundry Bluing													
Detergent Type:													
Sodium Sulfonate Alkyl Aryl		10-25											
Sodium Sulfate		40-75					0						Merck 8
Sodium Tripolyphosphate		10-30			X		0	X		X			Merck 8 CCD
Dye, Blue		less than 1						X					Heukelekian
Fluorescent Dye		less than 1						X					Heukelekian
Germicide		0.5-2											
Liquid Type:													
Blue Dye (Aniline Blue)		1-2					0	X					Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 3	ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water			98-99										
Ball, Block, or Cube Bluing:													
Ultramarine Blue			40-50					X					CCD
Sodium Bicarbonate			30-40		X		0	X					Merck 8
Glucose			10-30		X	X	0	X					CCD Toxic Sub Heukelekian
may contain:													
Acetic Acid					X	X		0	X				CCD Heukelekian
Dextrin						X	X	X	X				Merck 8 Heukelekian
Oxalic Acid or					X	X	0	0					CCD Merck 8 Heukelekian
Borax					X		0	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2899 3 ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Prussian Blue (see Iron Blues)					X	X					CCD
Soap											
Lighter Fluid											
Petroleum Hydrocarbons (Naphthas)	100										Gleason
Perfume	trace		X		X	X	X		X		CCD K-O
Charcoal Lighters											
Naphtha	up to 100		X		X	0	X		X		CCD Merck 8
Perfume	0.1		X		X	X	X		X		CCD K-O
may contain:											
Aromatics											
Mimeograph Correction Fluid											
Ether Type											

x - may be an effect
 o - no effect
 blank - no information

2899 3		ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Diethyl Ether		40-75		X	X				X				Merck 8 Heukelekian
Plasticizers		5-15											
Ethanol		0-15			X	O	O	X					CCD Heukelekian Lamb
Nitrocellulose		3-8					X						Hackh's
Pigments		0-5				X	X						CCD
Non-Ether Type													
Ethyl Acetate (or Other Ketone of Ester)		20-40			X	X	O	X					CCD Heukelekian Lamb
Ethanol		20-50			X	O	O	X					CCD Heukelekian Lamb
Plasticizer		5-15											
Nitrocellulose		3-8					X						Hackh's

x - may be an effect

o - no effect

blank - no information

2899 3 ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Pigments	0-5				X	X					CCD
Patching Plaster											
Formula I											
Ground Marble											
Plaster (Calcium Sulfate, Anhydrous)					X	X					Merck 8
Formula II											
Rutland Kex											
Plaster (Calcium Sulfate, Anhydrous)					X	X					Merck 8
Ground Marble											
Mica						X					CCD
Glue											

x - may be an effect
 o - no effect
 blank - no information

2899 3	ESSENTIAL OILS, FIREWORKS, AND PYROTECHNICS, AND CHEMICALS AND CHEMICAL PREPARATIONS, N.E.C. (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula III													
Plaster of Paris (see Gypsum Cements)													
Retarder													Gleason
Spackling Compound													
Calcium Sulfate, Anhydrous			92				X	X					Merck 8
Mica			5					X					CCD
Glue			3										
may contain:													
Calcium Carbonate							X	X	0				CCD
Acetate Resin Emulsion													
Plasticized Polyvinyl													

x - may be an effect
 o - no effect
 blank - no information

2911 7	LUBRICATING OILS AND GREASES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Top Cylinder Lubricants		Gleason									
Mineral Oils	60-100										
may contain:											
Aromatic Gas Oils	0-40										
Chlorine Compounds or											
Sulfur Compounds or	0-10										
Phosphorus Compounds											
Isobutylene Polymers	0-3				X						CCD
Greases											
Petroleum Oils					X	X			X		CCD
Sodium Soap or											
Lithium Soap or											
Calcium Soap or					X						CCD

x - may be an effect
 o - no effect
 blank - no information

2911 7	LUBRICATING OILS AND GREASES (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Aluminum Soap												
may contain:												
Barium Compounds												
Borax				X		O	X					CCD Toxic Sub
Chromate												
Dye							X					
Graphite							X					CCD
Lead Compounds												
Molybdenum				X		X	X					Merck 8
Talc							X					CCD
Zinc Salt						O						Gleason
Lubricating Pencils												
Paraffin Wax						X	X					Merck 8

x - may be an effect

o - no effect

blank - no information

2911 7	LUBRICATING OILS AND GREASES (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Petrolatum	Small Amount										
Coloring	Trace					X					
Mica						X					CCD
Film Strength Additives											
Silicone Lubricants											
Lubricating Oil	78-80		X								Gleason
Paraffin Wax	14-15				X	X					Merck 8
Defoamer	5-6										
Silicone Oil	0.4-0.5										
Zipper Lubricant											
Petroleum Wax											
Perchlorethylene Base											

x - may be an effect
 o - no effect
 blank - no information

2911 7	LUBRICATING OILS AND GREASES (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Lubricants may contain:											
Carnauba Wax					X	X	X				CCD
Lacquer Solvents											
Microcrystalline Waxes					X	X	X				CCD Merck 8
Petroleum Oils (Naphthenic)					X	X			X		Merck 8
Pour Point Depressant (Polymeric Type)											
Trichloroethylene			X		X		X				Merck 8 III-B
Varnish											

x - may be an effect
 o - no effect
 blank - no information

2952 2		ROOFING ASPHALTS AND PITCHES, COATINGS & CEMENTS										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Roof			Gleason									
Asphalt (Cut Back With Solvents)						X	X	X				CCD
Asbestos				X								Merck 8
Slate Filler												
Petroleum Ether				X								Merck 8
Roofing Cement												
Petroleum Asphalt		25-35				X	X	X				CCD
Petroleum Solvents		15-25										
Asbestos Fiber		5-15		X								Merck 8
Limestone or		35-45										
Clay or												
Other Filler												

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Penetrating Oils											
Mineral Oils		40-80									
Kerosene		20-60		X							Heukelekian
may contain:											
Surface Active Agents		0-3									
Fatty Oils and Fatty Acids		0-5									
Xylene		0-10	X	O	X						Merck 8 III-B Heukelekian
Tributyl Phosphate		0-3			X	O	O				CCD
Butyl Alcohol			X				X				Merck 8 Toxic Sub
Chlorinated Hydrocarbons (CCL ₄)			X								Gleason
Pump Lubricants											

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emulsifying Cutting Oil	20-25										CCD
Water	80										
may contain:											
Coupling Agents											
Inhibitors											
Petroleum Sulfonate											
Soap											
Thread Lubricants (A.P.I. Grease)											
Aluminum Stearate Grease	20.5				X	X					CCD
Silicone Compound	12.8										
Silicone Fluid	2.0										
Graphite	18.0					X					CCD

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Lead			30.5		X	X	X					Hackh's Merck 8 III-B
Copper			3.3		X		X					Merck 8
Zinc			12.3			X	X					CCD
Shock Absorber Fluids												
Delco Type:												
Naphthenic or Paraffinic Petro- leum Oil (See Kerosene)					X							Heukelekian
Houdaille Type:												
Glycerin					X	X	O	X	O			CCD Merck 8 III-B Heukelekian
Alcohol					X	O	O	X				CCD Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)										REF.	
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	
Glucose				X	X	0	X					CCD Toxic Sub Heukelekian
Water												
Formula III												
Petroleum	97					X	X			X		Merck 8
Kerosene	3				X							Heukelekian
Shock Absorber Oils												
Mineral Oils	90-100											
Fatty Oils	0-5											
may contain:												
Viscosity Improvers	0-5											
(Polymethacrylate Esters)						X	0					CCD
Dyes	0-150ppm						X					

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Motor Oils											
Mineral Oils	75-100										
Oxidation Inhibitors and Detergents	0-20										
Zinc Dialkyl Dithiophosphate											
Phosphorus Pentasulfide Addition Products			X			X	X				CCD
Phosphorus Terpene Addition Products											
Barium Phenolates											
Calcium Phenolates					X	X					Merck 8
Ashless Detergents											
Pour Point Depressants and Viscosity Improvers	0-5										
Polymethacrylate Esters					X	0					CCD

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Petroleum Oxidates		0-5										
Protective Coating Type												
Asphalts		40-60				X	X	X				CCD
Light Petroleum Distillates		40-60										Gleason
may contain:												
Mineral Oils		35-60										
Petrolatum		30-50										
Petroleum Wax		0-20				X	X			X		Merck 8
Stoddard Solvent		0-25										CCD
Soaps		0-3										
Fatty Oils		0-5										
Miscellaneous Oils												
Mineral Oils												

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Additives											
Xylene			X	O	X						Merck 8 III-B Heukelekian
Alkaline Salts of Organic Acids											
Rust Inhibitors											
Kerosene				X							Heukelekian
Silicone											CCD
Propellant											
Phosphorus		Trace				X					Merck 8
Zinc		Trace			X	X					CCD
Barium		Trace	X			X					Merck 8
Citronella (Home)		Trace	X			X	X				CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
General Purpose Oils (Household, Electric Motors)												
Mineral Oils		90-100										
may contain:												
Rust Inhibitors												
(Sulfonates or												
Amines or		0-10										
Fatty Oils or												
Fatty Acids)												
Odorants		0-Trace										
Silicone												CCD
Graphite Lubricants												
Carbon		70-98										

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Inert Ingredients	5-30									
	Silica	0-0.5	X		X	X					CCD Merck 8
	Alumina	Trace			X	X					CCD
	may contain:										
	Iron Oxide				X	X					CCD
	Graphite Lubricants, Liquid										
	Graphite					X					CCD
	Blended Oils (See Kerosene)			X							Heukelekian
	Gear Oils										
	Mineral Oils	70-100									
	Lubricity Agents, Extreme Pressure Agents, Anti-Wear Agents	0-20									
	CI, S.P. Compounds										

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Fatty Oils												
Chlorinated Paraffins							X					CCD
Lead Soaps						X						CCD
Lead Naphthenate							X					CCD
Tricresyl and Other Organic Phosphates					X	X				X		Merck 8
Oxidation and Corrosion Inhibitors			0-5									
Barium Petroleum Sulfonates (See Sulfonates or Petroleum Sulfonates)												
Calcium Petroleum Sulfonates (See Sulfonates or Petroleum Sulfonates)												
Barium Phenolates												
Calcium Phenolates						X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
2,6-Ditertiary Butylparacresol Amines (Diphenylamine) Zinc Dialkyl Dithiophosphates Pour Point Depressants and Viscosity Improvers Polymethacrylate Esters Polyisobutylenes Alkylstyrene Polymers Hydrocarbon Wax-Naphthalene Condensation Products Antifoam Agents Polysiloxanes may contain: Trichloroethylene (As Cut-Back Solvent)		0-5 0-150ppm 0-25				X	0					CCD Merck 8 III-B	

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cutting Oils-Chemical Coolants											
Water	50-90										
Rust Inhibitors	1-10										
Sodium Nitrite					0	X					CCD
Ethanol Amines			X	X		0	X				CCD Merck 8 III-B Heukelekian Lamb
Potassium or Sodium Soaps											
Lubricity Agents	20-50										
Polyether Glycols											
Alkyl-Phenol-Ethylene Oxide Con- densation Products											
Bactericides	0-1										

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chlorophenos			X								Toxic Sub
Organic Mercurials											
Iodine Compounds											
Formaldehyde Releasers											
Quaternary Ammonium Compounds											
Hexachlorophene			X		X	X	O				CCD Merck 8 III-B
Note: Chemical coolants are usually diluted with from 50 to 150 parts of water to 1 part of the coolant to form the products used in metalworking operations.											
Furnace Oils											
Petroleum Distillates											

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.							
Conveyer Lubricant				20-25		X	X	X	O			CCD Heukelekian III-B
Soap (May Be Liquid)												
Versene												
Brake Fluids												
Lubricant												
Castor Oil				80-85			X	X			Merck 8	
Castor Oil Soap												
Butyl or Glyceryl Ether of Poly- oxyethylene Propylene Glycol												
Polypropylene Glycol												
Solvent												
Methyl Ethers of Ethylene Glycol and Related Glycols												

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ethyl Ethers of Ethylene Glycol and Related Glycols											
Butyl Ethers of Ethylene Glycol and Related Glycols											
Brake Fluids may contain:											
Butylene Glycol											
Diethylene Glycol				X		0	0				CCD Heukelekian
Ethylene Glycol			X	X							Merck 8 Heukelekian III-B
Hexylene Glycol						0	0				
Polyethylene Glycol			X	X	X	X					Merck 8 Heukelekian III-B
Inhibitors											

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Amine Soaps											
Potash Soaps											
Borax			X		O	X					CCD Toxic Sub
Antioxidants											
Bisphenol A					X	X	X				CCD
Hydroquinone				X	O	X					CCD Heukelekian
Dyes			X			X					CCD Heukelekian
Automatic Transmission Fluids											
Mineral Oils	75-100										
Oxidation Inhibitors and Detergents	0-20										
Zinc Dialkyl Dithiophosphate											

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Phosphorus Pentasulfide and Addition Products			X			X	X				CCD
Phosphorus Terpene and Addition Products											
Barium Petroleum Sulfonates											
Calcium Petroleum Sulfonates											
Barium Alkyl Phenolates											
Calcium Alkyl Phenolates					X	X					Merck 8
Ashless Detergents											
Pour Point Depressants and Viscosity Improvers	0-5										
Polymethacrylate Esters					X	O					CCD
Polyisobutylenes											
Hydrocarbon Wax-Naphthalene Condensation Products											

x - may be an effect
 o - no effect
 blank - no information

2992	LUBRICATING OILS AND GREASES MADE FROM PURCHASED MATERIALS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.								
Anti-Wear Agents		0-2									
Organic Borates											
Antifoam Agents		0-15									
Polysiloxanes											
Sealant		100									
Triaryl Phosphate				X	X				X		Merck 8
may contain:											
Dyes		0-200		X		X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3011	TIRES AND INNER TUBES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tread		ASTM									
Polymer											
Aromatic Oil									X		
N-285 Carbon Black			X		X	X					CCD Toxic Sub
N-Isopropyl-N ¹ -Phenylparaphenylenedi- aminic					X	X					CCD
Paraffin Wax					X	X					Merck 8
Zinc Oxide					X	X	O				CCD
Stearic Acid					X	O	X				CCD
N-Cyclohexylbenzothiazole-2-Sulfanamide					X	X					CCD
Diphenylguanidine					X	X					CCD
Sulfur			X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C.			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Natural Rubber				ASTM								
Natural Rubber							X					CCD
Zinc Oxide			5-6			X	X	O				CCD
Sulfur			2.5-3.5		X	X	X					Merck 8
Stearic Acid			0.5-3			X	O	X				CCD
may contain:												
Mercaptobenzothiazole			0.5		O	X	X	X				CCD
Benzothiazyl Disulfide			1		X	X	X					Merck 8
Phenyl Beta Naphthylamine			1			X	X					CCD
Channel Black			50									
Calcium Carbonate			75			X	X	O				CCD
Conducting Furnace Black			40									
Gas Furnace Black			20-70									

x - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Styrene-Butadiene Rubber Compounds											
Styrene-Butadiene Rubber	100 parts					X					CCD
OE Styrene Butadiene Rubber	125-175					X					CCD
Zinc Oxide	3-5.25				X	X	O				CCD
Stearic Acid	1-1.75				X	O	X				CCD
Sulfur	1.75-3.06		X		X	X					Merck 8
Furnace Black	50-87.5										
n-Tert-Butyl-2-Benzothiazole Sulfenamide	1-1.75					X					CCD
Polyisoprene Compounds											
Polyisoprene	100										
Zinc Oxide	5				X	X	O				CCD
Sulfur	2.25		X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C. (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Stearic Acid			2			X	0	X				CCD
n-Tert-Butyl-2-Benzothiazole Sulfen- amide			0.7				X					CCD
Oil Furnace Black			35									
Nitrile Rubber Compounds												
Nitrile Rubber			100			X						CCD
Zinc Oxide			5			X	X	0				CCD
Sulfur			1.5		X	X	X					Merck 8
Stearic Acid			1			X	0	X				CCD
Benzothiazyl Disulfide (See 2,2- Dithio-Bis-Benzothiazyl)			1		X	X	X					Merck 8
Gas Furnace Black			40									
Polybutadiene Rubber Compound												
Polybutadiene			100									

x - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Zinc Oxide	3				X	X	0				CCD
Sulfur	1.5		X		X	X					Merck 8
Stearic Acid	2				X	0	X				CCD
n-Tert-Butyl-2-Benzothiazole Sulfen- amide	0.9					X					CCD
Oil Furnace Black	60										
Petroleum Oil	15				X	X					Merck 8
Neoprene Rubber Compounds											
Neoprene W	100					X					CCD
Magnesium Oxide	4		X		X	X	0				Merck 8
Stearic Acid	0.5-1				X	0	X				CCD
Carbon Black	29				X	X					CCD
Zinc Oxide	5				X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
2-Mercaptoimidazoline	0.35-0.5					X					CCD
Phenyl Beta Naphthylamine	2				X	X					CCD
Butyl Rubber Compounds											
Butyl Rubber	100										
Zinc Oxide	3-5				X	X	O				CCD
Sulfur	1.75-2		X		X	X					Merck 8
Stearic Acid	1-3				X	O	X				CCD
Benzothiazyl Disulfide (See 2,2-Dithio-Bis-Benzothiazyl)	0.5		X		X	X					Merck 8
Tetramethyl Thiuramdisulfide	1		X		X	X	X				CCD
Channel Black	up to 50										
Oil Furnace Black	up to 50										

x • - may be an effect
 o - no effect
 blank - no information

3069	FABRICATED RUBBER PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Baloons Urathene											

x - may be an effect
 o - no effect
 blank - no information

3069 8	OTHER RUBBER GOODS N.E.C.		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fabric Coatings:		K-0									
Woven Cotton											
Synthetic Rubber											
Natural Rubber						X					CCD
Knit Cotton											
Synthetic Rubber											
Natural Rubber						X					CCD
Duck and Canvas											
Synthetic Rubber											
Natural Rubber						X					CCD
Burlap and Jute											
Synthetic Rubber											
Natural Rubber						X					CCD

x - may be an effect
 o - no effect
 • blank - no information

3069 8	OTHER RUBBER GOODS N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Rubber Cement		Gleason									
Formula I											
Hexane	93		X	X	O	X					CCD Merck 8
Rubber	7										
Formula II											
Butadiene Styrene Latex	50.0					X					CCD
Rosin Gum Emulsion	33.7										
Water	14.25										
Ammonium Hydroxide	0.2		X			O	X				CCD Merck 8 III-B
2,2-Methylene-Bis(4-Methyl-6-Tertiary-Butylphenol)	0.25										
Sodiumorthophenylphenate	0.1				O	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3069 8 OTHER RUBBER GOODS N.E.C. (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Sodium Pentachlorophenate	0.1	Gleason	X		0	X					CCD
Cunilate 2778-I	0.1					X					CCD
Colloid 581-B	0.1										
Formula III											
Centrifuged Natural Latex	50-75					X					CCD
Black Color (Carbon)	0.2- 0.6%					X					
Ethylene Glycol	5-10		X	X							Merck 8 III-B Heukelekian Lamb
Dispersed Sulfur	0.05- 0.1		X		X	X					Merck 8
Trisodium Phosphate	0.2- 0.5				0	X		X			Merck 8
Creosote	0.03- 0.1		X		X	X	X				CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3069 8	OTHER RUBBER GOODS N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Stabilizer	0.3-1.5										
Ammonia	1-3		X		O	O	X				Hackh's CCD Merck 8 Toxic Sub III-B
Inert (Flours, etc.) may contain:	20-40					X					Hackh's
Benzol			X	X	X	O	X				Merck 8 Toxic Sub III-B Heukelekian
Carbon Tetrachloride			X	O	X	O	X				CCD Toxic Sub III-B Heukelekian
Mercaptobenzo thiazol			O		X	X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

3069 8	OTHER RUBBER GOODS N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Stearic Acid					X	O	X				CCD
Sulfur			X		X	X					Merck 8
Zinc Oxide					X	X	O				CCD
Formula IV											
Hexane	93		X		X	O	X				CCD Merck 8
Rubber	7										
Solvents may contain:											
Toluene			X	O	X	X					Merck 8 III-B Heukelekian
Ketone (e.g., Acetone)											
Chloroethene					X		X				CCD

x - may be an effect
 o - no effect
 blank - no information

3079	MISCELLANEOUS PLASTIC PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Formaldehyde Resin Plastics		ASTM 1970 Part 26			0	X	X				Merck 8 CCD
Urea or					0	X	X				
Melamine or											
Phenol and			X	X	0	0	X				Merck 8 Toxic Sub III-B Mills Heukelekian
Filler											
Cellulose				X	X	X					Merck 8 Heukelekian
Alpha-Cellulose				X							Heukelekian
Organic Fibers (Natural)					X						CCD
Mineral Fibers											

x - may be an effect
 o - no effect
 blank - no information

3079	MISCELLANEOUS PLASTIC PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cellulox Plastics											
Cellulox Nitrate or						X					Hackh's
Cellulox Acetate or						X					CCD
Ethyl Cellulose or					X	X					CCD
Cellulose Acetate Butyrate						X					CCD
Styrene											
Acrylonitrile			X	X	X	0					CCD Toxic Sub Heukelekian
Butadiene			X		X	0	X				CCD Toxic Sub
Nitrile Rubber					X						CCD
Miscellaneous											
Acrylics					X	0					CCD

x - may be an effect
 o - no effect
 blank - no information

3079	MISCELLANEOUS PLASTIC PRODUCTS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Nylon (See Fibers, Synthetic)												
Polyester												
Polyethylene			0					0				CCD
Polybutylene												
Polycarbonate					X	0						CCD
Phenoxy												
Acetal Copolymers												
Allyl and Polyesterglan Laminates (Allyl Resins)												CCD
Vinyl Chloride					X			X				CCD

x - may be an effect
 o - no effect
 blank - no information

3079 65	PLUMBING FIXTURES AND PARTS (PLASTIC)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Acrylonitrile-Butadiene-Styrene Plastic		ASTM									
Butadiene	min.6%		X		X	O	X				CCD Toxic Sub
Acrylonitrile	min.15%		X	X		O					CCD Toxic Sub Heukelekian
Styrene	min.15%		X		X	X	X				Merck 8
Other Monomers	not to exceed 5%										
Oils									X		
Lubricants			X								Gleason
Stabilizers											
Pigments					X	X					CCD
Chlorinated Polyethers		Plastic Matls Guide 70-71			X						CCD

x - may be an effect
 o - no effect
 blank - no information

3079 65	PLUMBING FIXTURES AND PARTS (PLASTIC) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Polybutene-1		" "									CCD
Polyethylene		" "	0				0				
Acetal Copolymers		" "									

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Green Salted Steerhide		K-0									
True Leathermaking Hide Substance	20-27										
Curing Salt	25-35										
Moisture (Water and Brine)	40-50										
Dirt, Filth, Hair and Extraneous Tissue	10-15										
Disinfectants											
Sodium Acid Fluoride			X		O	X					CCD
Softening Agents											
Sodium Sulfide			X		O	X					CCD
Sodium Polysulfide						X					CCD
Soda Ash (Sodium Carbonate)											
Liming											

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Hydrated Lime	10-12										
Sulfides											
Amines											
Cyanides			X								III-B
Bating Solution		K-O									
Enzyme (From Pancreas)											
Wood Flour						X					CCD
Ammonium Chloride			X		O	X	O				CCD Merck 8 Toxic Sub III-B
Ammonium Sulfate					O	X					CCD
Pickling Solution											
Sulfuric Acid	1.25- 1.75		X			O	O		X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Sodium Chloride	2.5-3.5	X		O	X					Merck 8 III-B
	Tanning Solution										
	Natural Tannin (From Plants)		X	X	O	X	X				Merck 8 Heukelekian
	Synthetic										
	Formaldehyde		X	X	O	O	X				CCD Heukelekian
	Naphthalene Sulfonic Acids				O	X					CCD
	Phenols		X	X	O	O	X				Merck 8 Toxic Sub III-B Heukelekian Mills 8
	Sulforated Phenols										
	Diaryl Sulfones										

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Urea		K-O			0	X	0				CCD Merck 8
Melamine											
Dicyandiamide					0	X					CCD
Patent Leather											
Chrome Tannage											
Trivalent Salt Converted to Basic Chromic (III) Sulfate (Zirconium or Iron May Replace Chromium)			X		X	X					CCD Toxic Sub
Sodium Carbonate Bleach											
Naphtha Degreaser			X		X	0	X		X		CCD Merck 8
Finishes		K-O									
Dope											

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Boiled Linseed Oil						X	X				CCD
Pigment											
Varions					X	X					CCD
Coatings											
1) Clear Varnish (See 2851 12)											
Plasticizer											
2) Polyvinyl Resins											
Leather Finishes		ASTM									
Urethane (Esp. Patent Leather)											
Aniline			X	X	X	X	X		X		Merck 8 Toxic Sub III-B Heukelekian
•											
Glutaraldehyde Tanning					0						CCD

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Leather			30	Gleason									
Methyl Alcohol or					X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Ethyl Alcohol						X	0	0	X				CCD Heukelekian Lamb
Isopropyl Alcohol						X	0	0					CCD Heukelekian
Xylene					X	0	X						Merck 8 III-B Heukelekian
Aniline Dye						0		X					Heukelekian
may contain:													
Nitrobenzene					X	0	X	X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3111	LEATHER TANNING AND FINISHING (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Tannic Acid			X	X	O	X	X					Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3141	FOOTWEAR, EXCEPT HOUSE SLIPPERS AND RUBBER FOOTWEAR		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Shoe Dyes										
	Denatured Ethanol	50-80		X	0	0	X				CCD Heukelekian Lamb
	Methanol	0-1	X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
	Dichlorobenzene	15-20	X		X						Merck 8
	Aniline Dyestuffs	0-3		0		X					Heukelekian
	Diethylene Glycol Monoethyl Ether	0-3				0	X				CCD
	may contain:										
	Butadiene/Styrene Resin					X					CCD
	Emulsified Wax				X	X					CCD
	Glycerine		X	X	0	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3141	FOOTWEAR, EXCEPT HOUSE SLIPPERS AND RUBBER FOOTWEAR (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Mineral Spirits			X								III-B Heukelekian
Xylene			X	O	X						Merck 8 Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3231	GLASS PRODUCTS, MADE OF PURCHASED GLASS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Composition of glass varies according to its intended use. The following are some guidelines.											
Commercial Silicate Glasses		K-0									
Silicon Dioxide	5-99.9		X		X	X					CCD Merck 8
Aluminum Oxide	0.3-25				X	X					CCD
Boric Oxide	1-26				X/ 0	0					CCD
Lithium Oxide	0.5-2		X								Merck 8
Sodium Monoxide	0.5-17					X					CCD
Potassium Oxide	0.3-12				0	X					CCD
Magnesium Oxide	3-15		X		X	X	0				Merck 8
Lime	0.9-17.5										
Lead Oxide	2-82		X		X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3231	GLASS PRODUCTS, MADE OF PURCHASED GLASS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Non-Silicate Glasses		K-0									
Phosphoric Anhydride	70-72										
Germanium Dioxide	18-78				X	X					CCD
Buic Oxide	4-83				X/	O					CCD
					O						
Aluminum Oxide	4-25				X	X					CCD
Lithium Oxide	14		X								Merck 8
Sodium Monoxide	5-8					X					CCD
Potassium Oxide	1.5-10				O	X					CCD
Baryllium Oxide	2-4		X		X	X					CCD
Magnesium Oxide	4		X		X	X	O				Merck 8
Lime	18										
Barium Oxide	2.1-33		X		O	X					Merck 8
Lead Oxide	3-78		X		X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3231	GLASS PRODUCTS, MADE OF PURCHASED GLASS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Zinc Oxide	1-10	K-0			X	X	0				CCD
Iron Oxide	2.5				X	X					CCD
Minor Constituents											
Pigment											
Metals and Metallic Salts											
UV Absorption											
Ceric Oxide			X		X	X					CCD Toxic Sub
Titanium Dioxide			X		X	X					Merck 8
Iron Oxide (Ferric)					X	X					CCD
Vanadium Pentoxide					X	X					CCD
Chromic Oxide					X	X					CCD
Fluorescence											

x - may be an effect
 o - no effect
 blank - no information

3231	GLASS PRODUCTS, MADE OF PURCHASED GLASS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Rare Earth											
Manganese Ion			X			X					Merck 8
Uranium Ion											
Copper Ion			X			X					Merck 8
Thallium Ion											
Tin Ion						X					Merck 8
Lead Ion			X		X	X					Hackh's Merck 8 III-B
Vanadium Ion											

x - may be an effect
 o - no effect
 blank - no information

3231 5	Mirrors, Unframed		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Plate Glass		ASTM									
Silvering											
Amalgam of Mercury			X		X	X					CCD Merck 8
Amalgam of Tin						X					Merck 8
Frame											
Wood											
Metals (See sic 2514)											
Plastics (See sic 3079)											
Decorative Paints (See sic 2851)											
Lighted Make-Up Mirrors											
Same as Above (See also 3641)											

x - may be an effect
 o - no effect
 blank - no information

3241	CEMENT HYDRAULIC												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sample Compounds				K-0									
Silicon Dioxide			5.3-25.5		X		X	X					CCD Merck 8
Aluminum Oxide			3.4-40				X	X					CCD
Iron Oxide			0.6-15				X	X					CCD
Lime			33.5-65										
Magnesium Oxide			1.1-3		X		X	X	0				Merck 8
Sulfur Trioxide			0.1-2.3		X								CCD
Insol.			0.1-4.8										
may contain:													
Tricalcium Silicate			28-53										
Dicalcium Silicate			19-49										
Calcium Aluminate			4-11										CCD

x - may be an effect
 o - no effect
 blank - no information

3241	CEMENT HYDRAULIC (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tetracalcium Aluminoferrite	8-13										
Calcium Sulfate	2.7-4				X	X	0				CCD
Magnesium Oxide	1.8-2.9		X		X	X	0				Merck 8
Lime	0.2-0.7										
Pigments											
Iron Oxides					X	X					CCD
Manganese Dioxide					X	X					CCD
Cobolt Blue											
Chromic Oxide					X	X					CCD
Carbon Black			X		X	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3269	POTTERY PRODUCTS, N.E.C.												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
White Ware Clay				ASTM Stan- dards, 1972 Part 13, April									
Silica					X		X	X					CCD Merck 8
Iron Oxide							X	X					CCD
Aluminum Oxide							X	X					CCD
Titanium Oxide					X		X	X					Merck 8
Lime													
Magnesium					X			X					Merck 8
Alkalies					X								CCD
Clay													
Hydrous Aluminum Silicates							X	X					Hackh's

x - may be an effect
 o - no effect
 blank - no information

3269	POTTERY PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dolomite											
Calcium Carbonate					X	X	O				CCD
Magnesium Carbonate					X	X					Merck 8
Feldspar											
Microcline											
Albite											
Anorthite Aggregate											
Paperware											
Barite					X		O				Merck 8
Kaolin					X	X	X				CCD
Refractory Clay											
Mullite											
Aluminum Oxide					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3269	POTTERY PRODUCTS, N.E.C. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Silicone Dioxide		CCD	X		X	X					CCD Merck 8
Nepheline/Syenite											
Feldspar											
Nephelite						X					CCD
may contain:											
Magnetite						X					CCD
Mica						X					CCD
Terra Sigillata											
Porous Red Clay											CCD

x - may be an effect
 o - no effect
 blank - no information

3274	LIME		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Hydraulic Lime			K-0								
Silica or				X	X	X					CCD Merck 8
Alumina or					X	X					CCD
Iron Oxide					X	X					CCD
Combine with lime to form:											
Tricalcium Stearate											
Tricalcium Aluminate											
Tetracalcium Ferroaluminate											
Calcium Sulfatoaluminate											
Therefore, free lime may only be		10-35									
Quicklime											
Lime		55.5-98									

x - may be an effect
 o - no effect
 blank - no information

3274	LIME (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Silicon Dioxide	0.2-0.5											
Nace Coumpounds	0.1-0.3											
Notes: CaO and MgO hydrate to Ca(OH)_2 Mg(OH)_2 , ionizes to Ca^{2+} , Mg^{2+} , OH^- , forming shiny base or alkali.												

x - may be an effect
o - no effect
blank - no information

3292	ASBESTOS PRODUCTS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Asbestos Fiber			Not to exceed 1	K-0									
Magnesium Oxide				X		X	X	0					Merck 8
Silicon Dioxide				X		X	X						CCD Merck 8
Water													
Iron Oxide							X	X					CCD
Impurities Aluminum Oxide							X	X					CCD
Lime													
Cement													
Portland Cement								X					CCD
Portland-Pozzolan Cement													
Organic Fiber													
(In sewer pipe, absolutely free of organic fiber)													

x - may be an effect
 o - no effect
 blank - no information

3292	ASBESTOS PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
may contain: Inert Filler Mineral Pigments Mineral Fillers Coatings Curing Agents Water Repellents Substances Mineral Granules Plastic Lining (Pipe Only) Thermoplastic Polymers Thermosetting Polymers Bonding Agents (Fiber Board) Insulating Core (Fiber Board)			X								Gleason

x - may be an effect
 o - no effect
 blank - no information

3292	ASBESTOS PRODUCTS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wood or Vegetable Fiber Sizing											CCD

x - may be an effect
 o - no effect
 blank - no information

3352	ROLLING, DRAWING AND EXTRUDING OF ALUMINUM		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Aluminum Foil											
Aluminum		Min. 99	X			X					Merck 8
Lead		Not to exceed in food pkging 0.01	X		X	X					Hackh's Merck 8 III-B
Arsenic		Not to exceed in food pkging 0.01	X		X	X					Merck 8 III-B
Cadmium		Not to exceed in food pkging 0.01	X		X	X					Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3352	ROLLING, DRAWING AND EXTRUDING OF ALUMINUM (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Coating		K-0									
Polyvinyl Chloride	60-65				X	X	0				CCD
Plasticer	35-40										
Diocetyl Phthalate					X	X					CCD
Tri-2-Ethylhexylphosphate											
Dicaprylphthalate											
Diocetyl Sebacate					X	X					CCD
Pigment	10-20										
Rutile Titanium Dioxide	50		X		X	X					Merck 8
Basic Carbonate of White Lead	5		X		X	X					CCD
Functional Additives	1-25										
Light Stabilizers											
Surface Active Agents											

x - may be an effect
 o - no effect
 blank - no information

3352	ROLLING, DRAWING AND EXTRUDING OF ALUMINUM (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Adhesive Promoters											
Solvents for Fusion at High Temperatures											
Pigment Stabilizers											
Volatile Thinners											

x - may be an effect
 o - no effect
 blank - no information

3411	METAL CANS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Tinplate				ADL									
Steel Sheet													
Tin Coating on Both Sides													
Steel													CCD
Aluminum					X			X					Merck 8
Aerosol				Household & Personal Products Industry 3/72									
Metals													
Tinplated Steel													
Blackplate (Thin Sheetsteel)													
Chemically Treated Steel													
Chromium							X	X					CCD

x - may be an effect
o - no effect
blank - no information

3411	METAL CANS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chromium Oxide					X	X					CCD
Tin-Free Steel											
Stainless Steel											CCD
Aluminum			X			X					Merck 8
Linings											
Vinyl Organosols											
Epoxy Resin Powder											
Polypropylene Powder					X	X					CCD
Comalloy											
Polyethylene			O				O				CCD
Nylon											
Seralyn A											
Adhesive											

x - may be an effect
 o - no effect
 blank - no information

3411	METAL CANS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Polyamide Valves Neoprene Rubber, Synthetic						X					CCD

x - may be an effect
o - no effect
blank - no information

3431	METAL PLUMBING FIXTURES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Glazed Vitrified Whiteware		ASTM									
Clay and											CCD
Calcium Carbonate Powder					X	X	O				CCD
Hydrons Aluminum Silicates					X	X					Hackh's
Plasticizer											
Glass Pipings and Fittings											
Borosilicate Glass											
Silicon Dioxide	80.57		X		X	X					CCD Merck 8
Sodium Monoxide	4.07					X					CCD
Potassium Oxide	0.57				O	X					CCD
Boric Oxide	13.07				X/ O	O					CCD
Al ₂ O ₃	2.07				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3432	PLUMBING FITTINGS AND BRASS GOODS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Brass		ASTM Standards, 1970 Part 5, July									
Copper	50-99		X			X					Merck 8
Lead	0-27		X		X	X					Merck 8 Hackh's III-B
Tin	0-20					X					Merck 8
Silicon	0-5										
Aluminum	0-12		X			X					Merck 8
Nickel	0-5		X			X					Merck 8
Iron	0-5				X	X					Merck 8
Manganese	0-6		X			X					Merck 8
Sulfur	0-0.1		X		X	X					Merck 8
Phosphorus	0-1.0		X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3432	PLUMBING FITTINGS AND BRASS GOODS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Arsenic	0-1.0		X		X	X					Merck 8 III-B
Antimony	0-1.0		X			X					Merck 8 Toxic Sub
Zinc	0-50				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3461	METAL STAMPINGS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Tin-Brass													
Tin-Nickel													
Pewter													
Tin	90-95						X					Merck 8	
Antimony	4-8			X			X					Merck 8 Toxic Sub	
Copper	1-2			X			X					Merck 8	
Bismuth or							X					Merck 8	
Cadmium or	Less than 1			X		X	X					Merck 8 Toxic Sub	
Silver				X			X					Merck 8	
Lead	0.5 as impurity			X		X	X					Merck 8 Hackh's III-B	

x - may be an effect
 o - no effect
 blank - no information

3461 1	VITREOUS-ENAMELED PRODUCTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Metal											
Steel (Mostly)											CCD
Aluminum			X			X					Merck 8
Tin						X					Merck 8
Nickel Bonding Layer			X			X					Merck 8
Enameling		K-O									
Glass Formers											
Boric Oxide					X/						
Silicon Dioxide			X		O	O					CCD
					X	X					CCD
											Merck 8
Phosphoric Anhydride											
Feldspar											
Quartz (Silicon Dioxide)			X		X	X					CCD
											Merck 8

x - may be an effect
 o - no effect
 blank - no information

3461 1	VITREOUS-ENAMELED PRODUCTS (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Cobalt Oxide (With Steel Only)			X		X	X		•			CCD Toxic Sub
Antimony Trioxide (White Opaque Pigment)			X		X						Merck 8
Zirconium Oxide (White Opaque Pigment)					X	X	O				Merck 8
Titanium Dioxide (White Opaque Pigment with Steel Only)			X		X	X					Merck 8
Notes:											
Water in pores and "shock" (hot to cold) causes cracks and fractures in enameling.											
Impact can fracture.											
Defect in Manufacturing can cause fractures.											
Therefore:											

x - may be an effect
 o - no effect
 blank - no information

3461 1	VITREOUS-ENAMELED PRODUCTS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Potential particulate pollution and exposure of metal surfaces to oxidation.												

x - may be an effect
 o - no effect
 blank - no information

3496 011	COLLAPSIBLE TUBES-ALUMINUM														
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.		
Aluminum			99	K-0	X			X					Merck 8		
Aluminum Alloy			99												
Internal Lining															
may contain:															
Waxes															
Note: Used primarily for toothpaste. Inhibitor often added to toothpaste to prevent reaction with aluminum e.g. Sodium Silicate							X	X	X				CCD Merck 8		
Polyethylene					0				0				CCD		
Pliofilm															
Saran															

x - may be an effect
 o - no effect
 blank - no information

3496 011	COLLAPSIBLE TUBES-ALUMINUM (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Closure			Mod. Pkg. Encyl. 1970										
Molded Plastic Cap													
Phenolics				0				0				CCD	
Polyethylene				0								CCD	
Acrylonitrile Butadiene Styrene													

x - may be an effect
 o - no effect
 blank - no information

3496 012	COLLAPSIBLE TUBE-LEAD												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lead				K-0	X		X	X					Hackh's Merck 8 III-B
Note: Used primarily for haircreams, glue, grease.													
Closure													
Molded Plastic Cap (See 3496 011)													
may contain:													
Internal lining													
Vinyl Resins													
Phenolic Resins													
Epoxy Resins													
Waxes							X	X	X				CCD Merck 8
Lacquers (See 2851 5)													

x - may be an effect
 o - no effect
 blank - no information

3496 013	COLLAPSIBLE TUBE-TIN												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Tin				K-0				X					Merck 8
Note: Used for medicinal ointments.													
Closure													
Molded Plastic Cap (See 3496 011)													
may contain:													
Internal Lining													
Resins (Vinyl, Phenolic or Epoxy)													
Waxes							X	X	X				CCD Merck 8
Lacquers (See 2851 5)													

x - may be an effect
 o - no effect
 blank - no information

3522 7	LAWN MOWERS AND LAWN MOWER PARTS AND SNOWBLOWERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Diecast Magnesium			Materials Eng								

x - may be an effect
 o - no effect
 blank - no information

3632	HOUSEHOLD REFRIGERATORS AND FREEZERS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Carbon Steel Bodies Polypropylene Parts Stainless Steel Parts		Materials Eng.				X					CCD

x - may be an effect
 o - no effect
 blank - no information

3633	HOUSEHOLD LAUNDRY EQUIPMENT			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Carbon Steel Bodies Polypropylene Parts			Materials Eng.				X					CCD

x - may be an effect
 o - no effect
 blank - no information

3635	HOUSEHOLD VACUUMS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION				%	REF.							
Reinforced Plastic Bodies (See sic 3079 for various plastics)					Materials Eng.							

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Incandescent Glass				ASTM									
Chromium-Iron Alloy													
Carbon	0.25												
Manganese	2		X					X					Merck 8
Phosphorus	0.04		X				X	X					Merck 8
Sulfur	0.03		X				X	X					Merck 8
Silicon	1.0												
Chromium	23-30						X	X					CCD
Iron							X	X					Merck 8
Borosilicate Sealing Glass													
Silica	65.0		X				X	X					CCD Merck 8
Alumina	7.5						X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Boric Oxide	18.0			X/ O	O					CCD
	Sodia (Na ₂ O)	2.0									
	Potash	3.0			O	X					CCD
	Barium Oxide	3.0	X		O	X					Merck 8
	Lithium Oxide	0.6	X								Merck 8
	Fluorine	0.6									
	Oxides	0.05									
	Type 101 Sealing Glass										
	Silica	56.0	X		X	X					CCD Merck 8
	Alumina	1.5			X	X					CCD
	Soda	4.0									
	Potash	8.5			O	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Lead Oxide	29.0	X		X	X					CCD
	Antimony Trioxide and	1.0	X		X						Merck 8
	Arsenic Trioxide		X		X/ O	X	O				CCD Merck 8 Toxic Sub
	Halogens	0.2									
	Filament										
	Formula I										
	Tungsten					X					Merck 8
	Formula II										
	Tungsten										
	Thoria	Up to 27			X	X					CCD
	Formula III										
	Rayon										

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Miscellaneous												
Tin Chloride						0	0					CCD
Argon						0	0	0				Merck 8
Nitrogen					X	X	X	0				Merck 8
Molybdenom Support Wires					X		X					Merck 8
Nickel-Iron Core												
Copper Wires					X		X					Merck 8
Copper					X		X					Merck 8
Mica							X					CCD
Silica Coating (On Inside)					X	X	X					CCD Merck 8
Sun Lamps												
Glass												

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Must transmit ultraviolet energy (See 3231)											
Cathode											
Mercury			X		X	X					CCD Merck 8
Reflector											
Metallic Paint (See sic 2851 131)											
Other											
Mercury Vapor											
Fluorescent											
Glass Tubing (See sic 3231)											
Phosphorus Coating			X		X	X					Merck 8
Mercury Vapor											
Argon					0	0	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tungsten Wire		Abs. of Photographic Sci. & Eng. Lit.				X					Merck 8
Flash Cubes and Bulbs											
Tungsten						X					Merck 8
Glass With Zirconium Shreds			X			X					Merck 8
Combustion Supporting Gas (Oxygen)											
Fluorescent Pigment					X	X					CCD
Mercury Vapor											
Oxidizable Metal											
Reflector											
Plastic, or Thermoplastic Material											
Pyrogenic Ignitor											

x - may be an effect
 o - no effect
 blank - no information

3641	ELECTRIC LAMPS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Silicon											
Aqueous Electrolyte											
Fluorescent Lighting											
Glass Tubing											
Phosphor Coating											
Mercury Vapor											
Argon					0	0	0				Merck 8
Tungsten Wire						X					Merck 8
Sun Lamps											
Mercury Vapor, Mercury Cathode											
Glass Transmitting Ultraviolet Energy											
Reflector of Silvering (Metallic Paint)											

x - may be an effect
 o - no effect
 blank - no information

3651	RADIO AND TELEVISION RECEIVING SETS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Color Tubes		Electrochem									
Phosphors		Society Inc									
Europium		Abstracts									
Yttrium Ortho Vanadate		Electronics				X					
Silver Activated Sulfides		Div. Vol 14	X		X	X					Merck 8
Dichromated Poly(Vinyl Alcohol)		#1 Spring			O	X					Merck 8
Carbon		Mtg. 5/9-									
Copper		13/65									
Tungsten		Electronics									
Aluminum		5/8/72 &	X			X					Merck 8
Lead		ASTM Stan-									
Cadmium Sulfide		dard 1970,									
		Pt. 8, Nov.									
			X			X					Merck 8
			X		X	X					Hackh's
											Merck 8
											III-B
					X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3651	RADIO AND TELEVISION RECEIVING SETS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cadmium Selenide					X	X					Merck 8
Metalized Polycarbonates						O					CCD
Silicon											
Sapphire											
Boron-Deoxidized Copper											
Steel-Aluminum											
Steel-Clad			X			X					Merck 8
Carbonized Nickel			X			X					Merck 8
Germanium						X					CCD
Magnesium			X			X					Merck 8
Mica						X					CCD
Silicon Electrodes											
Iron-Nickel Composite											

x - may be an effect
 o - no effect
 blank - no information

3651	RADIO AND TELEVISION RECEIVING SETS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Cobalt Alloy and Copper Composite											
Glass (See 3231)											
Magnets											
Ceramics											
Cellulose Nitrate						X					Hackh's
Lead Wires		ASTM	X		X	X					Hackh's Merck 8 III-B
Aluminum			X			X					Merck 8
Copper			X			X					Merck 8
Nickel Coated Copper											
Medium Borate Dumet											
Dark Borate Dumet											
Light Borate Dumet											

x - may be an effect
 o - no effect
 blank - no information

3651	RADIO AND TELEVISION RECEIVING SETS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Unborated Dumet											
Molybdenum			X			X					Merck 8
Monel 440 (Nickel-Copper Alloy)											
Nickel 200			X			X					Merck 8
Nickel 201			X			X					Merck 8
Silver Coated Nickel											
Copper Coated Nickel											
Iron Nickel, 52 Alloy											
Nickel Silver Alloy											
Iron-Nickel-Cobalt Alloy											
Silver			X			X					Merck 8
Steel											
Platinum			X			X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3651	RADIO AND TELEVISION RECEIVING SETS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tungsten Silicone Bronze Alloy						X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3652	PHONOGRAPH RECORDS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Shellac Records (Pre-1947)				K-0									
Shellac (See sic 2851 3)			13-20		X		X	X					CCD Merck 8
Extender Resin			2-10										
Copal Gum			1-2										
Zinc Stearate			0-5		X		X		X				Merck 8
Carbon Black			1-5		X		X	X					CCD Toxic Sub
Ground Limestone			35-56										
Ground Slate			18-37					X					CCD
78 RPM Records (Post War)													
Ethylcellulose			4-10				X	X					CCD
Vinsol (Hercules Powder Co.)			22					X					CCD
Calcium Stearate			1				X						Merck 8

x - may be an effect
 o - no effect
 blank - no information

3652	PHONOGRAPH RECORDS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Carbon Black	2		X		X	X					CCD Toxic Sub
Microcrystalline Wax	1				X	X	X				CCD Merck 8
Ground Limestone	32-35										
Ground Slate	32-35					X					CCD
78 RPM Unbreakable Children's (Postwar)											
Polyvinyl Formal	20-35										
Vinsol	25					X					CCD
Lead Stearate	2				X	X					CCD
Carbon Black	2		X		X	X					CCD Toxic Sub
Microcrystalline Wax	2				X	X	X				CCD Merck 8
Ground Limestone	34-46										

x - may be an effect
 o - no effect
 blank - no information

3652	PHONOGRAPH RECORDS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Plasticizer	3										
33 1/3 RPM and 45 RPM											
Vinyl Copolymer Resin											
Vinyl Chloride	85-95				X		X				CCD
Vinyl Acetate	5-15				X	O					CCD
Heat Stabilizer	0.5-2.5										
Lead			X		X	X					Hackh's Merck 8 III-B
Tin						X					Merck 8
Barium			X			X					Merck 8
Mixtures of Cadmium			X		X	X					Merck 8 Toxic Sub
Pigment	0.25-2										

x - may be an effect
 o - no effect
 blank - no information

3652	PHONOGRAPH RECORDS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Carbon Black	1		X		X	X					CCD Toxic Sub
Anti-Static Agent											
Catanac SN (Amer Cyanamid)											
33 1/3 Monaural											
Polystyrene						X					CCD
45 RPM Europe											
Methyl Methacrylate			X		X	O					CCD
may contain:											
Polycarbonate Resins						O					CCD
Acetal Copdymer Resins											
Polypropylene						X					CCD

x - may be an effect
 o - no effect
 blank - no information

3692	PRIMARY BATTERIES DRY AND WET		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dry-Cell Batteries		Gleason									
Conventional Battery Contains:											
Carbon	3 gm										
Manganese Dioxide	26 gm				X	X					CCD
Ammonium Chloride	13 gm		X		O	X	O				CCD Merck 8 Toxic Sub III-B
Zinc Chloride	5 gm		X		O	X	O				Gleason Merck 8 III-B
Cornstarch	0.75 gm			X	X	X					CCD Heukelekian
Zinc (Container)	20 gm				X	X					CCD
Mercuric Chloride	0.02 gm		X		O	X	O				CCD
Water											

x - may be an effect
 o - no effect
 blank - no information

3692	PRIMARY BATTERIES, DRY AND WET (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Mercury Cell Battery (For hearing aids, pen lights, and small transistor radios)											
Mercury (Metallic)	Less than 0.5 gm		X		X	X					CCD Merck 8
Mercuric Oxide	5 gm		X		X	X					CCD
Zinc	2 gm				X	X					CCD
Potassium Hydroxide	1.5 gm		X		0	X					CCD
Zinc Oxide	Less than 0.5 gm				X	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

3714	MOTOR VEHICLE PARTS AND ACCESSORIES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Wrought Aluminum Components		ADL	X			X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3842	SURGICAL APPLIANCES AND SUPPLIES												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Adhesive Bandage				Pharmacopia									
Absorbant Gauze (Cotton)							X						CCD
Film or Fabric Coated (See 2261)													
Adhesive Tape													
Fabric and/or Plastic Film													
Adhesive Mixture (See 2891 1)													
Cotton, Purified							X						CCD
Hair of Seed of Cultivated Varieties of "Sypium Hirsutum" Linne													
Petroleum Gauze													
Gauze													
White Petroleum													
Suture, Absorbable													

x - may be an effect
 o - no effect
 blank - no information

3842	SURGICAL APPLIANCES AND SUPPLIES (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Collagen Derived from Healthy Mammals											
Suture, Nonabsorbable											
Mono Filament Silk					X						CCD
Twisted Silk					X						CCD
Mono Filament Wire											
Multifilament Wire											

x - may be an effect
 o - no effect
 blank - no information

3842 161 CORN REMOVER PADS, BUNION PADS, ETC.			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Corn Removers		Gleason									
Formula I											
Phenoxyacetic Acid	40										
Inert Polymeric Adhesive	60										
Formula II											
Salicylic Acid	40		X	X	X	X					Merck 8 Heukelekian
Inert Rubber Adhesive-Rubber Natural	60					X					CCD
Inert Rubber Adhesive-Rubber Synthetic	60										
may contain:											
Acetone			X	X		0	X				CCD Toxic Sub Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

3842 161	CORN REMOVER PADS, BUNION PADS, ETC. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Anethinex											
Balsam					O	X	X				CCD
Beeswax					X	X	X				Merck 8 CCD
Belladonna			X								CCD
Benzocaine			X		X	X	O				Hackh's CCD III-B
Benzyl Alcohol			X	X	X	X	X				Hackh's CCD Merck 8 Toxic Sub Heukelekian
Boric Acid			X		O	X	O				Merck 8 Hackh's Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3842 161	CORN REMOVER PADS, BUNION PADS, ETC. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Bismuth Subcarbonate											
Calamine					X	X	O				CCD
Camphor			X		X		X				Merck 8 Toxic Sub
Chlorbutanol											
Castor Oil						X	X		X		Merck 8
Collodion						X	X				CCD
Eugenol					X	X	X		X		CCD
Geraniol					X	X	X		X		CCD
Glacial Acetic Acid			X	X		O	X				CCD Heukelekian
Isopropyl Alcohol				X	O	O					CCD Heukelekian
Lactic Acid				X		X	O				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3842 161	CORN REMOVER PADS, BUNION PADS, ETC. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Lard					X	X	X				CCD
Menthol			X		X	X	X				CCD Merck 8
Metaphen					X	X	O				Merck 8
Methylsalicylate			X		X	X	X		X		CCD Merck 8
Oil of Cadeberry											
Oil of Cassia											
Oil of Eucalyptus					X	X	X		X		CCD
Oil of Turpentine						X	X				CCD
Phenol			X	X	O	O	X				Merck 8 Toxic Sub III-B Mills 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3842 161	CORN REMOVER PADS, BUNION PADS, ETC. (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Pine Oil							X		X		CCD
Procaine					0	X	0				CCD
Salol					X	X	X				CCD
Trichloroacetic Acid					0	0	X				CCD
Zinc Chloride			X		0	X	0				Merck 8 III-B Gleason

x - may be an effect
 o - no effect
 blank - no information

3843	DENTAL EQUIPMENT AND SUPPLIES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dental Plate Cement (To Mend Broken Plates)		Gleason									
Methylmethacrylate Polymer	30		X		X	0					CCD
Methylmethacrylate Monomer	70		X		X	0					CCD

x - may be an effect
 o - no effect
 blank - no information

3861 6	SENSITIZED PHOTOGRAPHIC PAPER & CLOTH, SILVER HALIDE TYPE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
High Grade Paper (See sic 2621) Thin Gelatin Coating Silver Note: High BOD		ADL	X	X	O	X	O				CCD Heukelekian Merck 8

x - may be an effect
o - no effect
blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS & OTHER CHEMICALS SPECIFICALLY PREPARED & PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Sulfite		0.25-125.0				0						Merck 8
Borax		1.2-5.0		X		0	X					CCD Toxic Sub
Water												
pH		8.7										
may contain:												
Borax		3		X		0	X					CCD Toxic Sub
Boric Acid		4		X		0	X	0				Merck 8 Hackh's Toxic Sub
Citric Acid		2		X	X	0	X	0				CCD Toxic Sub Heukelekian
Glycine				X	X	0	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS & OTHER CHEMICALS SPECIFICALLY PREPARED & PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Hydrazine Dihydrochloride		4				0	0					III-B Heukelekian
Hydroquinone				X	0	X					CCD	
Kodak Anti-Fog #1 (Benzotriazole) (0.2%)											CCD Heukelekian	
Kodak Anti-Fog #2 (0.2%)												
Kodalk												
Kodalk Balanced Alkali												
Methylpara-aminophenol Sulfate						0	0				CCD	
Para-aminophenol Hydrochloride												
Paraformaldehyde				X		0	X	X			Merck 8	
Paraphenylene Diamine (Base)				X		X	X				Merck 8 III-B	

x - may be an effect
o - no effect
blank - no information

3861 811 PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS & OTHER CHEMICALS SPECIFICALLY PREPARED & PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Potassium Bromide	3				0	X					CCD
Potassium Iodide	3		X		0	X					CCD Merck 8
Potassium Metabisulfite					X	X	X				CCD
Pyro					0			X			Merck 8
Sodium Thiocyanate	4		X		0	X					CCD
Potassium Thiocyanate	4		X			0					Merck 8
Sodium Bisulfite	3				0	X	X				CCD
Sodium Sulfite	3				0						Merck 8
Sodium Carbonate											
Potassium Carbonate					0	X					CCD
Sodium Hydroxide			X		0						Merck 8
Sodium Metaborate	3				0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS & OTHER CHEMICALS SPECIFICALLY PREPARED & PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Sulfate						0						Merck 8
Sulfuric Acid (C.P.)				X		0	0			X		Merck 8

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.							
Paper Developers, Additional Constitutents of				Gleason							
Amidol					X	0					Hackh's
Di-Aminophenol Hydrochloride					0	X					CCD
Chlor-Hydroquinone											
Film Cleaners											
may contain:											
Ammonium Hydroxide			X			0	X				Merck 8 CCD III-B
Carbon Tetrachloride			X	0	X	0	X				CCD Toxic Sub III-B Heukelekian
Chlorinated Solvents											

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Denaturant											
Ethyl Alcohol				X	0	0	X				CCD Heukelekian Lamb
Methyl Alcohol			X	X	0	0	X				CCD Merck 8 Heukelekian Lamb
Methyl Chloroform			X		X						Merck 8 III-B
Petroleum Ether			X								Merck 8
Trichloroethane			X		X						Merck 8 III-B
Wax					X	X					CCD
Fixing Baths											
Sodium Thiosulfate	4.0-37.0				0						Merck 8
Sodium Sulfite	0.7-7.0				0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Acetic Acid (28%)		2.0-21.0		X	X		0	X				CCD Heukelekian
Boric Acid		0.6-3.0		X		0	X	0				Merck 8 Hackh's Toxic Sub
Potassium Aluminum Sulfate		1.0-9.0				0	X	0				CCD Merck 8
Water		57.0-96.0										
may contain:												
Ammonium Chloride		4.0		X		0	0					Toxic Sub CCD Merck 8 III-B
Sodium Bisulfite		2.0				0	X	X				CCD
Borax		4.0		X		0	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Potassium Chromium Sulfate			1.0				0	X					CCD
Sulfuric Acid (conc.)			0.3		X			0	0		X		Merck 8
Potassium Metabisulfite			5.0				X	X	X				CCD
Potassium Thiocyanate			9.0		X			0					Merck 8
Citric Acid			0.4		X	X	0	X	0				CCD Toxic Sub Heukelekian
Hardeners													
Sample Formulas:													
Liquid Hardener													
Formaldehyde (37%)					X	X	0	0	X				CCD Heukelekian
Aluminum Chloride					X		0	X	X				Hackh's Merck 8 III-B

x - may be an effect

o - no effect

blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Carbonate												
Sodium Sulfite						0						Merck 8
Sodium Bisulfite						0	X	X				CCD
Formalin-Carbonate Hardening Bath												
Formaldehyde (37%) Solution		0.9-1.0		X	X	0	0	X				CCD Heukelekian
Sodium Carbonate		0.5-0.6										
Water		98.0										
may contain:												
Aluminum Chloride				X		0	X	X				Hackh's Merck 8 III-B
Stock Hardener												
Sodium Sulfite		2.5-7.5										

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Acetic Acid		5.0		X	X	0	X					CCD Hackh's
Boric Acid (crys.)		2.5-3.7		X		0	X	0				Merck 8 Hackh's Toxic Sub
Potassium Alum		5.0-7.5				0	X	0				CCD Merck 8
Water		73-85										
may contain:												
Potassium Chrome Alum		3										
Sodium Sulfate		5-6				0						Merck 8
Sodium Carbonate		0.5-1.2				X						CCD
6-Nitrobenzeneimidazole		4										

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Hypo Eliminators												
Hydrogen Peroxide (3% solution)			13.3			0	0					CCD
Ammonium Hydroxide (28%)			1.1	X			0	X				CCD Merck 8 III-B
Water			85.6									
Hypo Test Solution												
Formula I												
Water												
Acetic Acid (28%)				X	X		0	X				CCD Heukelekian
Silver Nitrate				X		0	X	0	X			Merck 8
Permanganate Test												
Potassium Permanganate			0.05			0	X	0				CCD

x - may be an effect
 o - no effect
 blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Hydroxide		0.1		X		O						Merck 8
Water		99.8										
Mercuric Chloride Test												
Mercuric Chloride		2.0		X		O	X	O				CCD
Potassium Bromide		2.0				O	X					CCD
Water		95.0										
Silver Nitrate Test												
Silver Nitrate		1.0		X		O	X	O	X			Merck 8
Water		99.0										
Iodine Test												
Iodine Solution												
Potassium Iodide		6.0		X		O	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3861 811 PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Iodine (crys.)	2.7		X		X	X	X				Merck 8
Water	91.3										
Starch Solution											
Soluble Starch	5.0			X	X	X					CCD Heukelekian
Water	95.0										
Hydrochloric Solution											
Hydrochloric Acid (conc.)	11.1		X			0					Hackh's Merck 8
Water	88.9										
Other tests for hypo may contain:											
Formaldehyde			X	X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Starch						X	X	X					CCD Heukelekian
Hydrochloric Acid					X			0					Hackh's Merck 8
Intensifiers and Reducers													
Intensifiers are of various types and formulas.													
Chromium Intensifiers													
Bleach													
Potassium Dichromate	0.9-9.0				X		0	X					CCD
Hydrochloric Acid (conc)	0.7-7.0				X			0					Hackh's Merck 8
Water	84-98												
Redeveloper													
Standard Developer (See Developers)													

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Mercury Intensifiers												
Bleach												
Potassium Bromide			1.0-2.0			0	X					CCD
Mercuric Chloride			1.0-2.0		X	0	X	0				CCD
Water			96-98									
Redeveloper												
Solution A												
Sodium Cyanide			3		X	0	X	X				Merck 8
Water			97									
Solution B												
Silver Nitrate			4		X	0	X	0	X			Merck 8
Water			96									

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Quinone-Thiosulfate Intensifiers												
Solution A												
Potassium Dichromate	2			X		0	X					CCD
Sulfuric Acid (conc)	5			X			0	0		X		Merck 8
Water	92											
Solution B												
Sodium Bisulfite	0.4					0	X	X				CCD
Hydroquinone	1.0											
Wetting Agent	0.4											
Water	98											
Solution C												
Sodium Thiosulfate	2.0											
Water	98											

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
The intensifier is prepared by mixing solutions A, B, and C in equal proportions.											
Silver Intensifiers											
Stock Solution A											
Silver Nitrate		6		X	0	X	0	X			Merck 8
Water		94									
Stock Solution B											
Sodium Sulfite		6			0						Merck 8
Water		94									
Stock Solution C											
Sodium Thiosulfate		10			0						Merck 8
Water		90			.						

x - may be an effect
o - no effect
blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Stock Solution D Sodium Sulfite Elon (N-methylpara-aminophenol) Water The intensifier is prepared by mixing solutions A, B, C, and D in proportions of 1:1:1:3, respectively. Intensifiers may contain: Lead Nitrate Potassium Permanganate Reducers are of various types Farmer's Reducer Solution A	0.5 0.8 98.7		X X		0 0 0 0	0 X X	0				Merck 8 CCD Merck 8 CCD

x - may be an effect
o - no effect
blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Potassium Ferricyanide		0.7-7		X		0	X					CCD
Water		93-99.3										
Solution B												
Sodium Thiosulfate		3-21				0						Merck 8
Water		79-97										
Flattening Reducers:												
Bleach												
Potassium Ferricyanide		1.3-3		X		0	X					CCD
Potassium Bromide		1-3				0	X					CCD
Ammonium Hydroxide		0.1		X			0	X				CCD Merck 8 III-B
Water		96										

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Redevloper												
Solution A												
para-Aminophenol Hydrochloride		10										
Water		90										
Solution B												
Potassium Bromide		10				0	X					CCD
Water		90										
Persulfate Reducers:												
Ammonium Persulfate		3-6		X		0	X	0				CCD Merck 8
Sulfuric Acid (conc)		0.5-0.6		X			0	0		X		Merck 8
Water		93.4-96.5										

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Harmonizing-Bleaching Reducer											
Hydrochloric Acid (conc)		3		X		0					Hackh's Merck 8
Potassium Dichromate		1		X		0	X				CCD
Alum		5				0	X	0			CCD Merck 8
Water		91									
Other reducers may contain:											
Potassium Permanganate		0.02-5.0				0	X	0			CCD
Potassium Citrate		6									
Ferric Ammonium Sulfate		4				0	X			X	CCD
Sodium Sulfite		3				0					Merck 8
Citric Acid		2		X	X	0	X	0			CCD Toxic Sub Heukelekian

x - may be an effect
o - no effect
blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
may contain:												
Ferric Chloride					X	0	X				X	Merck 8 III-B
Print Flattening Solution												
Package												
Use Solution (5:1)												
Ethylene Glycol or					X	X						III-B Heukelekian Lamb
Ethylene Glycerine					X	X	0	X	0			CCD Merck 8 III-B Heukelekian
Formaldehyde (37%)					X	X	0	0	X			CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS. AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Residual Silver Test													
Sodium Sulfide (4%)					X		0	X					CCD
Silver Stain Remover													
Water													
Thiourea			7.5				0	X					CCD
Citric Acid			7.5		X	X	0	X	0				CCD Toxic Sub Heukelekian
Stain Remover													
Solution A (in water)													
Potassium Permanganate			0.5				0	X	0				CCD
Solution B (in water)													
Sodium Chloride			7.5		X		0	X					Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sulfuric Acid (conc)		1.6		X			0	0		X		Merck 8
Stop Baths												
Stop baths usually contain acetic acid (28%) and a pH indicator		3-12.5		X	X		0	X				CCD Heukelekian
Sodium Sulfate		4				0						Merck 8
Water		87.5-95										
may contain:												
Potassium Chromium Sulfate						0	X					CCD
Gold Toners:												
Solution A												
Sodium Thiosulfate		24				0						Merck 8
Potassium Persulfate		3				0	X					CCD
Silver Nitrate		0.1		X		0	X	0	X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Chloride		0.1		X		O	X					Merck 8 III-B
Water		78										
Solution B												
Gold Chloride		0.4				O	X					CCD
Water		99.5										
Iron. Toners:												
Ferric Ammonium Citrate		0.4				O	X	X			X	CCD
Oxalic Acid		0.4		X	X	O	O					CCD Merck 8 Heukelekian
Potassium Ferricyanide		0.4		X		O	X					CCD
Water		98										
may contain:												
Acetic Acid				X	X		O	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Polysulfide Toners:												
Potash Sulfurated	0.7					0	X					Merck 8
Sodium Carbonate	0.2											
Water	99											
Sulfide Sepia Toners:												
Bleaching Solution												
Potassium Ferricyanide	1-2			X		0	X					CCD
Potassium Bromide	2-3					0	X					CCD
Potassium Oxalate	5											
Acetic Acid (28%)	1			X	X		0	X				CCD Heukelekian
Ammonium Hydroxide (28%)	1			X			0	X				CCD Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

3861 811	PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY (Cont'd.))											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water		91-96										
Toning Solution												
Sodium Sulfide		0.7-1		X		O	X					CCD
Water		99										
Varigam Toners												
Potassium Ferricyanide				X		O	X					CCD
Potassium Bromide						O	X					CCD
Potassium Iodide				X		O	X					CCD Merck 8
Sodium Chloride				X		O	X					Merck 8 III-B
Nitric Acid				X			O	X				Merck 8
Thiocarbamide (Thiourea)						O	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3861 811		PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)										
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Sodium Hydroxide				X		0						Merck 8
Sodium Carbonate												
Potassium Carbonate						0	X					CCD
Gold Chloride						0	X					CCD
Potassium Thiocyanate				X			0					Merck 8
Hypo Alum Sepia												
Sodium Thiosulfate		12				0						Merck 8
Potassium Alum		3				0	X	0				CCD Merck 8
Silver Nitrate		0.1		X		0	X	0	X			Merck 8
Sodium Chloride		0.1		X		0	X					Merck 8 III-B
Water		84.8										

x - may be an effect
 o - no effect
 blank - no information

3861 811 PREPARED PHOTOCHEMICALS (DEVELOPERS, FIXERS, TONERS, AND OTHER CHEMICALS SPECIFICALLY PREPARED AND PACKAGED FOR USE IN PHOTOGRAPHY) (Cont'd.)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Tray Cleaner											
Formula I											
Potassium Dichromate	9		X		0	X					CCD
Sulfuric Acid	16		X			0	0		X		Merck 8
Water	76										
Formula II											
Solution A (in water)											
Potassium Permanganate	0.2				0	X	0				CCD
Sulfuric Acid (conc)	0.4		X			0	0		X		Merck 8
Solution B (in water)											
Sodium Bisulfite	3				0	X	X				CCD
Sodium Sulfite	3				0						Merck 8

x - may be an effect
 o - no effect
 blank - no information

3911	JEWELRY, PRECIOUS METAL												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Platinum				E.B. 12,15, 20	X			X					Merck 8
Palladium								X					Merck 8
Gold													
Silver					X			X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3931	MUSICAL INSTRUMENTS AND PARTS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Marimbas		Cons R J '70									
Lead Pellets											

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS													
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Plastics					Cons. R. J '70									
Acetal Copolymers														
Acrylonitrile Butadiene Styrene						0								CCD
MBS (sicoflex)														
Polyethylene						0				0				CCD
Polypropylene									X					CCD
Polystyrenes									0					CCD
Rubbers, Synthetic														
Chlorinated Polyethylene								X						CCD
Batteries														
(See 3692)														
Balloons														
Rubber - (See 3069)														

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Smoke Cartridge for Toy Electric Trains		Gleason									
Odorless Kerosene				X							Heukelekian
Cedarwood Oil	3		X			X	X				CCD
Flying Missiles											
Sodium Bicarbonate	52.5		X		O	X					Merck 8
Citric Acid (anhydrous)	37.0		X	X	O	X	O				CCD Toxic Sub Heukelekian
Starch	5.0			X	X	X					CCD Heukelekian
Talc	2.5					X					CCD
Magnesium Stearate	0.5				X	X	O				CCD
Calcium Pyrophosphate	2.5				X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Play-Doh												
Nontoxic Salts												
Cereal Product												
Highly Purified Hydrocarbon Distillate												
Art Kit												
Alizarin Crimson (see Alizarin)		2-3				O	X					CCD
Cadmium Yellow (Cadmium Sulfide)		3-4				X	X					Merck 8
Ultramarine		1-2					X					CCD
Ivory Black, Charred Bone		1					X					CCD
Zinc White (ZnO)		1				X	X	O				CCD
Bouncing Putty												
Silicone		82.4										

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Boric Oxide	4.5				X	0					CCD
Lithopone	9.3					X					CCD
Glycerine	1.7		X	X	0	X	0				CCD Merck 8. III-B Heukelekian
Ferric Stearate	1.7										
Red Iron Oxide	0.2				X	X					CCD
Oleic Acid	0.2		X		X	0					Merck 8
Chemical Underwater Flowers											
Metal Salts (Manganese, Cobalt, Nickel, Copper, Iron, etc.)											
Sodium Silicate											
Water	to 100										

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chemi-Lume Lights											
Fluorescent Rhodamine B					0	X					CCD
Methyl Cellulose			X	X	0	X					CCD Merck 8 Heukelekian
Foto Fun Kit											
Silver Nitrate	1.03		X		0	X	0	X			Merck 8
Ammonia Water	0.5		X		0	0	X				CCD Hackh's Toxic Sub III-B Merck 8
Toy Caps											
Amorphous Red Phosphorus											
Potassium Chlorate			X		0	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Antimony Trisulfide					X			X					CCD Toxic Sub
Water-Soluble Gum (Gum, Tragacanth)							X		0				Merck 8
Inert Abrasive													
Chemistry Sets													
Ingredients of Very Low Toxicity													
Bean Seed													
Calcite								X					CCD
Calcium Carbonate					X		X	X	0				Merck 8
Cochineal								X					CCD
Calcium Sulfate							X	X					Merck 8
Copper Wire					X			X					Merck 8
Diatomaceous Earth													

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Epoxidized Soybean Oil						X					CCD
Granulated Zinc					X	X					CCD
Graphite						X					CCD
Gum Arabic					O	X	X				CCD
Iron Metal (Powdered)					X	X					Merck 8
Logwood (Hematoxylin)					X	X					CCD
Muscovite						X					CCD
Nichrome Wire											
Nickel Steel Wire											
Phenolphthalein Solution					X	O					Merck 8
Polyvinyl Alcohol (in small amounts)					O	X					Merck 8
Powdered Charcoal											

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Powdered Iron				X	X					Merck 8
	Rhodamine B Dye				O	X					CCD
	Sodium Sulfate				O						Merck 8
	Starch			X	X	X					CCD Heukelekian
	Sulfur		X		X	X					Merck 8
	Thionine (in dilute solution)				O	X					Merck 8
	Zinc Metal				X	X					CCD
	Ingredients of Low Toxicity										
	Acetic Acid (dilute)		X	X		O	X				CCD Heukelekian
	Acetyl-tributyl Citrate (plasticizer)				X	O	O				CCD

x - may be an effect
 o - no effect
 blank - no information

3941	GAMES AND TOYS (Cont'd.)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Ammonium Chloride			X		O	X					CCD Merck 8 Toxic Sub III-B
Bronze Powder											
Calcium Chloride			X								Toxic Sub
Calcium Monophosphate					O	O		X		X	CCD
Chrome Alum (Chromium Potassium Sulfate)					O	X					CCD
Gibberellic Acid					X						CCD
Gypsum (Calcium Sulfate, Hydrous)											
Magnesium Sulfate					O	X				X	Hackh's
Manganese Sulfate					O	X					Merck 8
Mineral Oil											
Oregon Balsam (see Balsam Peru)					X	X	X				CCD
Shellac			X		X	X					CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3942 053	STUFFED TOY ANIMALS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
"Dream Pets" Mixed Sawdust from Evergreens Spruce Fir Pine Sugi Cotton Fabric (see SIC 2261) Dye (see SIC 2261)	 all cause derma- titis & allergic reac- tions suspect	Cons Rptz. 3/72			X						CCD CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3943	CHILDRENS VEHICLES, EXCEPT BICYCLES												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Plastic Bodies (See SIC 3079)			C.R. Jan. 1970										
Metal Bodies													
Rubber Tires (Synthetic)													
Paints, Lacquers (See SIC 2851)													

x - may be an effect
 o - no effect
 blank - no information

3949 2	GOLF EQUIPMENT												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Golf Ball Centers				Gleason									
may contain:													
Ethylene Glycol					X	X							III-B Heukelekian Lamb
Lithopone								X					CCD
Bentonite Clay							X	X					CCD Merck 8
Glycerine					X	X	0	X	0				CCD Merck 8 III-B Heukelekian
Castor Oil								X	X		X		Merck 8
Honey													
Calcium								X					Merck 8
Calcium Carbonate					X		X	X	0				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3949 2	GOLF EQUIPMENT (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Potassium Hydroxide				X		O	X					CCD	
Thymol in Alcohol				X		X	X	X				CCD Merck 8	
Potassium Cresylate													
Methyl Salicylate				X		X	X	X		X		CCD Merck 8	
Occasionally Gold Balls are Made with Steel Centers													

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chalks		Gleason									
Calcium Carbonate					X	X	0				CCD
Calcium Sulfate					X	X					Merck 8
Pigments					X	X					CCD
Drawing or India Inks											
Carbon Black	2-10		X		X	X					CCD Toxic Sub
Dyes or)	2-10			X		X					CCD Heukelokian
Pigments)					X	X					CCD
Shellac	2-5		X		X	X					CCD Merck 8
Water	80-90										
may contain:											

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Acetone			X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Alcohols, Ethyl				X	O	O	X				CCD Heukelekian Lamb
Ammonia			X		O	O	X				CCD Hackh's Merck 8 Toxic Sub III-B
Camphor			X		X		X				Merck 8 Toxic Sub
Preservatives											
Synthetic Resins											
Fabric Paint											
Pigments (Organic and Inorganic, Lead)	40-80				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Self-Drying Oils of Linseed Type	20-45					X	X				CCD
Varnish	0-20		X	X	O	X	X		X		CCD Merck 8
Naphtha											
Aluminum Hydrate											
Crayons											
Childrens Crayons											
Paraffin Wax	56-65				X	X					Merck 8
Stearic Acid	32-51				X	O	X				CCD
Pigments (Nontoxic)	1-21				X	X					CCD
Industrial Crayons											
Yellow, Orange, Vermillion, Red and Green: Lead Chromate			X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Red and Orange: Para Red											
Red and Yellow: Cadmium Compounds (Rare)											
Red: Mercuric Oxide (Rare)			X		X	X					CCD
White:											
Zinc and					X	X					CCD
Lead (Rare)			X		X	X					Hackh's Merck 8 III-B
Black: Migrosine											
Pencils											
Lead Pencils											
Clay	26										
Graphite	66					X					CCD
Wax	8				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Fats													
Stearic Acid						X	O	X				CCD	
Paraffins						X	X					Merck 8	
Indelible Pencils or Copying Pencils													
Methyl Violet					O	O	X					CCD Heukelekian	
Crystal Violet													
Colored Leads													
Pigments (See Industrial Crayons Above)						X	X					CCD	
Others: Water-Soluble Acid Dye-stuffs Which are Usually Comparatively Harmless													
The Following are of Low Toxicity:													

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Binders:												
Natural Gums						O						CCD
Cellulose				X	X	X						Merck 8 Heukelekian
Inerts:												
Clay												
Talc							X					CCD
Calcium Carbonate						X	X	O				CCD
Silica				X		X	X					CCD Merck 8
Waxes: Natural and Synthetic												
Carbowax				X								Merck 8
Polyethylene Glycol				X	X	O	X					Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Surfactants: Trace											
Finger Paint											
Vegetable, Organic and Inorganic Pigments		Nontoxic, particularly if they carry the CS 130-46 (U.S. Department of Commerce) designation			X	X					CCD
Aluminum Silicate					X	X					Hackh's Merck 8
Antibacterial Agent											
Formaldehyde			X	X	O	O	X				CCD
Dowicide, Etc.		Trace									Heukelekian
Glittering Decorative Color											
Petroleum Solvent					X	X					Merck 8
Coated Metallic Flake of Aluminum			X			X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Modeling Clay											
Kaolin					X	X					CCD
Gypsum											
Petrolatum					X	O	O		X		Merck 8
Wax					X	X					CCD
Castor Oil						X	X		X		Merck 8
Vegetable Dye				X		X					CCD Heukelekian
may contain:											
Aluminum Silicate					X	X					Hackh's Merck 8
Ammonium Alum						O	O	O			CCD
Borax			X		O	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Dextrin				X	X	X	X				Merck 8 Heukelekian
Fatty Acids											
Glycerine			X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Gum Arabic					O	X	O				CCD
Polyvinylacetate			O		X	O	O				CCD
Preservatives											
Methylcellulose			X	X	O	X					CCD Merck 8 Heukelekian
Sulfur			X		X	X					Merck 8
Sulfur Dioxide			X		O	O	X				CCD
Turpentine						X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Oil Paint											
Pigment	30-90				X	X					CCD
Stabilizer	0-20										
Self-Drying Oils of the Linseed Type	10-50					X	X				CCD
Pastels											
School Pastels											
Calcium Carbonate					X	X	O				CCD
Aluminum Silicate					X	X					Hackh's Merck 8
Calcium Sulfate					X	X					Merck 8
Organic and Inorganic Pigments (Nontoxic)					X	X					CCD
Water-Soluble Binder (Nontoxic)											

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Artist's Pastels											
Aluminum Silicate					X	X					Hackh's Merck 8
Magnesium Carbonate					X	X					Merck 8
Calcium Carbonate					X	X	0				CCD
Cellulose Type Binder				X	X	X					Merck 8 Heukelekian
Organic and Inorganic Pigments					X	X					CCD
Poster Colors											
Pigment	8-60				X	X					CCD
Reducer	0-50										
Gums	2.5-13										
Phenolic Preservatives											

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Aluminum Silicate					X	X					Hackh's Merck 8
Barium Sulfate					X		O				Merck 8
Barium Sulfate Compounds					X		O				Merck 8
Zinc Sulfide Compounds											
Calcium Carbonate					X	X	O				CCD
Calcium Sulfate					X	X					Merck 8
Glucose			X	X	O	X					CCD Toxic Sub Heukelekian
Glues (Animals)											
Glycerine			X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Glycols						O					Hackh's

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Preservatives												
Phenol			X	X	O	O	X					Merck 8 Toxic Sub III-B Mills 8 Heukelekian
Formaldehyde			X	X	O	O	X					CCD Heukelekian
Wetting Agents												
Formula for Artists												
Pigments					X	X						CCD
Egg Emulsion (From Egg White)												
Linseed Oil							X	X				CCD
Damar Varnish							X	X				CCD
Poppy Oil												
Water												

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Pigments											
Common Name											
Aureolin (Potassium Cobaltinitrite)					X	X					CCD
Cadmium Yellow											
Cadmium Sulfide					X	X					Merck 8
Cadmium Sulfoselenide											
Manganese Blue											
Barium Manganate					X	X					Merck 8
Barium Sulphate					X		O				Merck 8
Barium Nitrate			X		O	X		X			CCD
Mineral Blue (Basic Copper Carbonate)			X		X	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emerald Green											
Arsenic			X		X	X					Merck 8 III-B
Copper			X			X					Merck 8
Cobalt Violet (Cobalt Violet) (See Ammonium Cobaltous Phosphate)					X	X					Merck 8
Cremnitz White (Basic Lead Carbonate)			X		X	X					CCD
Emerald Green											
Arsenic			X		X	X					Merck 8 III-B
Copper			X			X					Merck 8
Flake White											
Basic Lead Carbonate and			X		X	X					CCD
Zinc Oxide					X	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Flesh Tint											
Basic Lead Carbonate and			X		X	X					CCD
Zinc Oxide					X	X	0				CCD
Foundation White (Variety of Basic Lead Carbonate)			X		X	X					CCD
Jaune Brilliant											
Basic Lead Carbonate and			X		X	X					CCD
Zinc Oxide					X	X	0				CCD
Magenta											
Arsenic			X		X	X					Merck 8 III-B
Mercuric Sulfide			X		X	X					Merck 8
Mauve Blue Shade (Arsenic)			X		X	X					Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Mauve Red Shade (Arsenic)			X		X	X					Merck 8 III-B
Naples Yellow											
Lead			X		X	X					Hackh's Merck 8 III-B
Cadmium			X		X	X					Merck 8 Toxic Sub
Chrome Green											
Lead Chromate			X		X	X					Merck 8
Prussian Blue					X	X					Merck 8
Chrome Lemon											
Lead Chromate			X		X	X					Merck 8
Prussian Blue					X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Chrome Yellow											
Lead Chromate			X		X	X					Merck 8
Prussian Blue					X	X					Merck 8
Chrome Orange											
Lead Chromate			X		X	X					Merck 8
Prussian Blue					X	X					Merck 8
Transparent Oxide of Chromium											
Chromium Oxide					X	X					CCD
Arsenic			X		X	X					Merck 8 III-B
Chrome Deep											
Lead Chromate			X		X	X					Merck 8
Prussian Blue					X	X					Merck 8
Raw Sienna						X					CCD

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Water Color											
Pigment	15-50				X	X					CCD
Hydroxy Ethyl Cellulose	0-35				O	X					CCD
Gums or } Dextrines }	18-32		X	X	X	X					Merck 8 Heukelekian
Wetting Agent	0-2										
Reducer	0-15										
Water	to 100										
may contain:											
Barium Sulfate					X		O				Merck 8
Calcium Carbonate					X	X	O				CCD
Calcium Sulfate					X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3952	LEAD PENCILS AND ART GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Glucose			X	X	O	X					CCD Toxic Sub Heukelekian
Phenolic Preservatives											
Phenyl Mercury Preservatives											
Plasticizer											
Polyethylene Glycol			X	X	O	X					Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

28445 43 FACE POWDER			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Face Powder		Gleason									
Talc	50.0					X					CCD
Kaolin	15.0				X	X	X				CCD
Zinc Oxide	15.0				X	X	O				CCD
Calcium Carbonate	10.0				X	X	O				CCD
Magnesium Carbonate	5.0				X	X					Merck 8
Zinc Stearate	5.0		X		X		X				Merck 8
Pigments (Insoluble)					X	X					CCD
Perfume			X		X	X	X		X		CCD K-O
may contain:											
Barium Sulfate					X		O				Merck 8
Boric Acid (If Substantial Percentages, Toxicity Rating 4)			X		O	X	O				Hackh's Merck 8 Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

28445 43	FACE POWDER (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Cetyl Alcohol						X	X	X				CCD
Hydrolyzed Silk Fibroin						X	X					Merck 8
Stearates												
Magnesium						X	X	O				CCD
Aluminum						X	X					CCD
Starch (Rice, Corn)					X	X	X					CCD Heukelekian
Titanium Dioxide				X		X	X					Merck 8
Powder Compact												
Composition Similar to That of Face Powder, Except for the Use of "Binders", Such as Gum Mucilage. Cake-Make-Up Employs an Emulsifiable Binder (e.g., Nonionic Surfactant)				X								III-B
may contain:												
Glyceryl or							X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

28445 43	FADE POWDER (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Glycol Stearate													
Mineral Oil													
Synthetic Oil (e.g., Ethyl Stearate)													
Waxes						X	X					CCD	

x - may be an effect
 o - no effect
 blank - no information

28445 61	BATH SALTS, TABLETS, OIL AND BUBBLE BATH		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Bath Preparations		Gleason									
Bath Oils											
Emulsifiable Type:											
Perfume (See Oils, Essential)	10.0		X		X	X	X		X		CCD K-0
Sulfated Castor Oil	50.0					X	X		X		Merck 8
Water	40.0										
Insoluble Type:											
Perfume (See Oils, Essential)	10.0		X		X	X	X		X		CCD K-0
Isopropyl Myristate	90.0				X	0	0				CCD
Isopropyl Palmitate					X						CCD
may contain:											

x - may be an effect
 o - no effect
 blank - no information

28445 61 BATH SALTS, TABLETS, OIL AND BUBBLE BATH (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Alcohol			X	O	O	X				CCD Heukelekian Lamb
Castor Oil					X	X		X		Merck 8
Coloring					X					
Lanolin		X		X	X	X				Merck 8
Bath Salts										
Effervescent										
Sodium Bicarbonate	60.0	X		O	X					Merck 8
Tartaric Acid	39.0		X	O	X	O				CCD Heukelekian
Perfume	1.0	X		X	X	X		X		CCD K-O
Plain										
Trisodium Phosphate (See Alkali)	50.0			O	X		X			Merck 8

x - may be an effect

o - no effect

blank - no information

28445 61	BATH SALTS, TABLETS, OIL AND BUBBLE BATH (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Chloride	48.0		X		O	X					Merck 8 III-B
Perfume	2.0		X		X	X	X		X		CCD K-O
Bath Salts may contain:											
Borax			X		O	X					CCD Toxic Sub
Coloring						X					
Sodium Hexametaphosphate											
Starch				X	X	X					CCD Heukelekian
Bubble Bath											
Liquid											
Triethanolamine Dodecylbenzene Sulfonate-Linear	20-33										

x - may be an effect
 o - no effect
 blank - no information

28445 61 BATH SALTS, TABLETS, OIL AND BUBBLE BATH (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Fatty Acid Akanolamides	5-12										
Perfume	1-5		X		X	X	X		X		CCD K-0
Water	40.8- 73.9										
Methyl Paraben	1-.2				X	X	X				CCD Merck 8
Powdered											
Sodium Lauryl Sulfate	30.0				O	X	X				CCD Merck 8
Sodium Chloride	68.0		X		O	X					Merck 8 III-B
Perfume	2.0		X		X	X	X		X		CCD K-0
Bubble Bath may contain:											

x - may be an effect
 o - no effect
 blank - no information

28445 61 BATH SALTS, TABLETS, OIL AND BUBBLE BATH (Cont'd)		TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
		Alcohol				X	0	0	X				CCD Heukelekian Lamb
		Alkyl Benzene Sodium Sulfonate											
		Coloring						X					
		Dioctyl Sodium Sulfosuccinate			X		0						Merck 8
		Propylene Glycol			X	X		0	X				CCD Merck 8 III-B Lamb
		Sodium Hexametaphosphate											
		Sodium Sulfate					0						Merck 8
		Sodium Tripolyphosphate			X		0	X		X			CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

2899 336	ANTIFREEZE PREPARATIONS: OTHER			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Antifreeze				Gleason								
Formula I												
Methanol			30-97		X	X	0	0	X			CCD Merck 8 Heukelekian Lamb
Isopropyl Alcohol			40-55			X	0	0				CCD Heukelekian
Isopropyl Ether			0-10									
Rust Inhibitors												
Borates												
Chromates			2-3									
Zinc Chloride					X		0	X	0			Gleason Merck 8 III-B
Dye			trace					X				CCD
Formula II												

x - may be an effect
 o - no effect
 blank - no information

2899 336 ANTIFREEZE PREPARATIONS: OTHER (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Ethylene Glycol (Federal Specification, 77.5% Min. and Other Glycols, Max. 5%)	9.0-10		X	X	0						Merck 8 Heukelekian Lamb III-B
Other Glycols	5				0	0					Hackh's
Total Glycols	92.5				0	0					Hackh's
Rust Inhibitor (Borax)	2.5		X		0	X					CCD Toxic Sub
Caustic (Sodium Hydroxide)	up to 1		X		0						Merck 8
Arsenic Compounds											
Sodium Mercaptobenzothiazole						X					CCD
Dye	trace			X		X					Heukelekian
Miscellaneous											
Calcium Chloride			X								Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

2899 336	ANTIFREEZE PREPARATIONS: OTHER (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Sodium Chloride (Are Used for Refrigeration Brines)			X		0	X					Merck 8 III-B
Calcium Chloride Solutions (Are Used in Tractor Tires for Added Weight)											
Glycerol			X	X	0	X	0				CCD Merck 8 Heukelekian III-B
Ethyl Alcohol (Are Used as Antifreezes for Cosmetics)				X	0	0	X				CCD Heukelekian Lamb
Lubricating Oils (Have Been Used as Cooling Agents in Specially Prepared Engines)			X								Gleason

x - may be an effect

o - no effect

blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Frost Remover		Gleason									
Spray Type:											
Isopropyl Alcohol	25			X	0	0					CCD Heukelekian
Ethylene Glycol	50		X	X	0						Merck 8 Heukelekian Lamb III-B
Water	25										
Propellant, Carbon Dioxide											
Alcohol											
Isopropyl Alcohol	30-100			X	0	0					CCD Heukelekian
n-Propyl Alcohol				X	0	0	X				CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Propylene Glycol	15-30		X	X	0	0	X				CCD Merck 8 Lamb III-B
Ethylene Glycol			X	X	0						Merck 8 Heukelekian Lamb III-B
Water	5-15										
may contain:											
Tetrahydrofurfuryl Alcohol						X	X				CCD
Radiator Cleaners (Flushes)											
Alkaline											
Sodium Orthosilicate	9				0	X					CCD
Sodium Tripolyphosphate	4		X		0	X		X			CCD Merck 8
Sodium Dichromate	2		X		0	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
may contain:											
Sodium Chromate	16				0	X					CCD
Acid											
Oxalic Acid	40		X	X	0	0					CCD Merck 8 Heukelekian
Boric Acid	60		X		0	X	0				Hackh's Merck 8 Toxic Sub
may contain:											
Hydrochloric Acid			X			X					Merck 8 III-B
Sodium Bisulfite					0	X	X				CCD
Mixed											
Formula I											

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Oxalic Acid	40-100		X	X	O	O					CCD Merck 8 Heukelekian
Boric Acid	60		X		O	X	O				Hackh's Merck 8 Toxic Sub
Detergent Formula II											
Sodium Carbonate	85										
Potassium Dichromate	15		X		O	X					CCD
Solvent Mainly Petroleum Ethers may be:											
Chlorinated Hydrocarbons			X								
(e.g., Ortho-Dichlorobenzenes)			X		X						Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Liquid Fast Flushes may contain:											
n-Butanol			X				X				Merck 8
Olefins											
Isopropanol				X	O	O					CCD Heukelekian
Heavy Duty Powders may contain:											
Oxalic Acid			X		O	O					CCD Merck 8 Heukelekian
Sulfamic Acid			X		O	X					Hackh's Merck 8
Deicer											
Car											
Ethylene Glycol			X	X	O						Merck 8 Heukelekian III-B Lamb

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%									
Propylene Glycol		X	X		0	X				CCD III-B Merck 8 Lamb
Phosphate							X			
Wetting Agent										
Water										
Lower Alcohols										
2-Propanol Isopropylalcohol			X	0	0					CCD Heukelekain
1-Propanol Propyl Alcohol			X	0	0	X				CCD Heukelekian
Denatured Ethanol										
Methanol		X	X	0	0	X				CCD Merck 8 Heukelekian Lamb

x - may be an effect
 o - no effect
 blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Aircraft													
Ethylene Glycol					X	X							Merck 8 Heukelekian Lamb III-B
Propylene Glycol					X	X		0	X				CCD III-B Merck 8 Lamb
1,3-Butylene Glycol							0	0	0				CCD
Glycerol					X	X	0	X	0				CCD Merck 8 Heukelekian III-B
Diethylene Glycol						X	0	0	0				CCD Heukelekian Lamb
Triethylene Glycol					X	X	0	0	0				Merck 8 Heukelekian III-B

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Dipropylene Glycol					0	0					CCD
Phosphates								X			
Sodium Nitrate					0	X	0				CCD
Borax			X		0	X					CCD Toxic Sub
Sodium Orthosilicate					0	X					CCD
Wetting Agents											
Water											
Deicers, Refrigerators and Automotive											
Propylene Glycol	0-100		X	X	0	0	X				Merck 8 CCD III-B Lamb
Ethylene Glycol	0-50		X	X	0						Merck 8 Heukelekian III-B Lamb

x - may be an effect
 o - no effect
 blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Isopropyl Alcohol	0-25			X	0	0					CCD Heukelekian
Water	0-25										
may contain:											
n-Propyl Alcohol				X	0	0	X				CCD Heukelekian
Carburetor Cleaners											
Formula I											
Tall Oil	5-18										
Cresol	10-25		X		X	X	X				Merck 8
Potassium Hydroxide	1-4		X		0	X					CCD
Ethylene Dichloride	15-50		X	X	X		X				Merck 8 III-B Mills Heukelekian Hackh's

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Sodium Chromate	0.5-5				0	X					CCD
Ammonium Oxalate	0.2-3		X		0	0	0				Merck 8 Hackh's
Alcohol	1-10			X	0	0	X				CCD Heukelekian Lamb
Water	10-40										
Formula II											
Ethylene Dichloride	63		X	X	X		X				Merck 8 III-B Mills Heukelekian Hackh's
(Other Chlorinated Hydrocarbons May be Substituted, e.g., Ortho-Dichlorobenzene)			X		X						Merck 8 III-B
Cresol (Low Boiling Cresylic Acids May be Substituted)	25		X		X	X	X				Merck 8

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Oleic Acid	7.2		X		X	X					Merck 8
Potassium Hydroxide	1.4		X		O	X					CCD
Sodium Hydroxide	1.4		X		O						Merck 8
Water	3.4										
Formula III											
"Odorless" Carbon Removers											
Aliphatic or Aromatic Hydrocarbon											
Solvents with Oil Soluble Wetting Agents											
Engine and Motor Cleaners											
Formula I											
Ethylene Dichloride	63		X	X	X		X				Merck 8 III-B Mills Heukelekian Hackh's

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
(Or Other Chlorinated Hydrocarbons Such as											
Ortho-Dichlorobenzene			X		X						Merck 8 III-B
1,1,1-Trichlorethylene			X		X		X				Merck 8 III-B
Cresol (Low Boiling Cresylic Acids May be Substituted)	25		X		X	X	X				Merck 8
Oleic Acid	7.2		X		X	X					Merck 8
Potassium Hydroxide	1.4		X		O	X					CCD
Sodium Hydroxide	1.4		X		O						Merck 8
Water	3.0										
Formula II											
Methylene Chloride	0.25		X		X	O					Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Perchlorethylene	5-60		X		X	0	X				Merck 8 III-B
Stoddard Solvent	40-70					0	0				CCD
Formula III											
Perchlorethylene	0-60		X		X	0	X				Merck 8 III-B
Trichlorethane	5-60										
Methylene Chloride	0-25		X		X	0					Merck 8 III-B
Petroleum Solvents	40-70										
Chlor-Aromatic Solvents (See											
Ortho-Dichlorobenzene	0-100		X		X		X				Merck 8 III-B
Chlorinated Naphthalenes)	0-100				X				X		Merck 8
Detergent											

x - may be an effect
 o - no effect
 blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Emulsifier											
may contain:											
Alkali			X								CCD
Corrosion Inhibitors											
Essential Oils			X		X	X	X		X		K-O CCD
Lubricating Oils			X						X		Gleason
Pine Oil											
Versene											
Deicers, Fuel System Antifreeze											
Formula I											
Isopropanol	60			X	0	0					CCD Heukelekian
Propanol	60			X	0	0					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 337 OTHER AUTOMOTIVE CHEMICALS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Toluene	30		X	X	X		0				Merck 8 Heukelekian III-B
Acetone	10		X	X	0	0	X				CCD Toxic Sub Heukelekian Lamb
Formula II											
Isopropanol	20			X	0	0					CCD Heukelekian
Propanol	20			X	0	0	X				CCD Heukelekian
Methanol	80		X	X	0	0	X				Merck 8 CCD Heukelekian Lamb
Formula III											

x - may be an effect
 o - no effect
 blank - no information

2899 337	OTHER AUTOMOTIVE CHEMICALS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Methanol		70		X	X	0	0	X				Merck 8 CCD Heukelekain Lamb	
Xylene		30		X	0	X						Merck 8 III-B Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2899 37		INKS, AND WATER TREATING COMPOUNDS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Soluble Marking Inks			Gleason										
Water		70-95											
Water Soluble Dyes		1-12			X	O	X						Heukelekian
Glycols or } Glycerin }		0-20				O	O						Hackh's
				X	X	X	X	O					CCD Merck 8 III-B Heukelekian
Soluble Gums		0-3				O							CCD
Indelible Inks													
Nigrosine Dyes		5-20				O	X						CCD
Solvents													
Aniline Oil		80-90		X	X	X	O	X			X		Merck 8 Toxic Sub III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%	REF.									
	Cresol	80-90		X		X	X	X				Merck 8
	Glycolethers	80-90										
	may contain:											
	Carbon or			X		X	X					CCD Toxic Sub
	Lampblack						X					CCD
	Naphthas			X		X	O	X		X		CCD Merck 8
	Toluene			X	X	X		O				Merck 8 Heukelekian III-B
	Xylene			X	O	X						Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 37 INKS, AND WATER TREATING COMPOUNDS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Ball Pen											
Glycols and/or	40-70				0	0					Hackh's
Glycol Ethers			X	X	X	X	0				CCD Merck 8 III-B Heukelekian
Spirit Soluble Dyes and/or Basic Dyes	5-40			X		X					Heukelekian
Resins	up to 40					X					Merck 8
may contain:											
Benzyl Alcohol			X	X	X	0	X				Hackh's CCD Merck 8 Toxic Sub Heukelekian
Marking Inks											
Permanent											
Dyes	2-8					X					Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
TYPICAL CHEMICAL COMPOSITION				%	REF.								
Solvents				80-90		X		X	O	X		X	CCD Merck 8
Naphthas													
Aromatic Hydrocarbons						X	O	X					Merck 8 III-B Heukelekian
Xylene													
Toluene				2-5		X	O	X		X		Merck 8 III-B Heukelekian	
Rosin								X	X				CCD
may contain:													
Alcohols							X	O	O	X			CCD Heukelekian Lamb
Cresol						X	X	X				Merck 8	
Glycol-Ethers													

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Oils										X		
Oleic Acid				X		X	O					Merck 8
Water-Soluble												
Water		70-80										
Dyes		3-10					X					Heukelekian
Glycerin or		6-20		X	X	O	X	O				CCD Merck 8 III-B Heukelekian
Glycol												
Water Soluble Gums												
		0-3				O						Hackh's CCD
Fiber Tipped Inks												
Water		70-95										
Water-Soluble Dyes		1-12				O	X					Heukelekian
Glycols		0-20					O					Hackh's

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATED COMPOUNDS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Glycerin		0-20		X	X	0	X	0				CCD Merck 8 III-B Heukelekian	
Soluble Gums		0-3				0						CCD	
Stamping Inks													
Pigments		7-30				X	X					CCD	
Alcohol		20-40			X	0	0	X				CCD Heukelekian Lamb	
Glycol-Ether		10-40											
Glycols		20-40					0					Hackh's	
Glycerine		40-50		X	X	0	X	0				CCD Merck 8 III-B Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
may contain:											
Acetone			X	X		O	X				CCD Toxic Sub Heukelekian Lamb
Aniline			X	X	X	X	X		X		Merck 8 Toxic Sub III-B Heukelekian
Cresol			X		X	X	X				Merck 8
Lacquer Solvents											
Phenol			X	X	O	O	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Resins, Synthetic											
Resins, Natural					X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Writing and Fountain Pen Inks												
Synthetic Dyes		0.5-5					X					Heukelekian
Water		90-95										
may contain:												
Alcohol					X	O	O	X				CCD Heukelekian Lamb
Gallic Acid				X	X	X	X					CCD Merck 8 Heukelekian
Glycols							O					Hackh's
Iron Salts				X								Gleason
Mineral Acid		0.1										
Oxalic Acid				X	X	O	O					CCD Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2899 37	INKS, AND WATER TREATING COMPOUNDS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%									
Tartaric Acid		not more than 0.15		X	0	0	0				CCD Heukelekian
Citric Acid			X	X	0	0	0				CCD Toxic Sub Heukelekian
Sodium Hydroxide		not less than 1	X		0						Merck 8
Surfactants											
Tannic Acid			X	X	0	X	X				Merck 8 Heukelekian
Thymol		not less than 1	X		X	X	X				CCD Merck 8
Phenol			X	X	0	0	X				Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2911	PETROLEUM REFINING			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Vaselines				Gleason								
Borated Petroleum Jelly												
Boric Acid			small amount		X	0	0	0				Merck 8 Hackh's Toxic Sub
Carbolic Acid			small amount		X	X	0	0	X			Merck 8 Toxic Sub III-B Mills 8 Vail Heukelekian
Camphor					X		X	0	X			Merck 8 Toxic Sub
Waxes							X	X				CCD
Oils										X		
Tar Removers												
Xylene					X	0	X					Merck 8 III-B Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2911	PETROLEUM REFINING (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.									
Chlorinated Hydrocarbons		100		X								Gleason
Mineral Spirits				X								Merck 8
may contain:												
Isopropyl Alcohol					X	0	0					CCD Heukelekian
Surfactants												
Cooking Fuels												
Formula I												
Petroleum Hydrocarbons												
Kerosene }					X							Heukelekian
Naphtha }				X		X	0	X		X		CCD Merck 8
Formula II												

x - may be an effect
 o - no effect
 blank - no information

2911	PETROLEUM REFINING (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Denatured Ethanol	70		X	O	O	X				CCD Heukelekian Lamb
	Methanol	6	X	X	O	O	X				CCD Merck 8 Heukelekian Lamb
	Acetone	1	X	X		O	X				CCD Toxic Sub Heukelekian Lamb
	Nitrocellulose	1				X					Hackh's
	Water	q.s.									
	Fire Kindlers										
	Liquid										
	Kerosene	89		X							Heukelekian
	Dyes	11				X					Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2911	PETROLEUM REFINERS (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
may contain:													
Copper Naphthenate							X					CCD	
Isopropyl Alcohol					X	O	O					CCD Heukelekian	
Perfume Hickory													
Freon Propellant							O	X				CCD	
Tablets													
Potassium Chlorate				X		O	O					CCD Merck 8	
Small Amounts of													
Graphite							X					CCD	
Clay												CCD	
Manganese Dioxide						X	X					CCD	
Nitrocellulose Cement							X					Hackh's	

x - may be an effect
 o - no effect
 blank - no information

2911	PETROLEUM REFINING (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Model Airplane Fuel												
Alcohol Type:												
Methanol			45-75		X	X	0	0	X			CCD Merck 8 Heukelekian Lamb
Nitromethane			5-30				0	0				CCD
Castor Oil			20-25				X	X		X		Merck 8
Diesel Type:												
Kerosene			55-65			X						Heukelekian
Castor Oil			20-25				X	X		X		Merck 8
Ether			15-20		X	X		X				Merck 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2911 1	GASOLINE		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Motor Fuel Additive		Gleason									
Kerosene	90			X							Heukelekian
Mixture of Oxygenated, Unsaponifiable Hydrocarbons	8										
Isopropyl Alcohol	trace			X	0	0					CCD Heukelekian
Alkyl Aryl Phosphate	trace										
High Molecular Weight Esters											
Rust Inhibitor											
N,N'-Disalicylidene-1,2-Propanediamine					X						CCD
N,N'-Di-Sec-Butyl-Paraphenylene Diamine					X	X					CCD
Trimethylphosphate											
Ethylene Dichloride			X	X			X				Merck 8 III-B Mills 8 Heukelekian

x - may be an effect
 o - no effect
 blank - no information

2911 1	GASOLINE (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
TYPICAL CHEMICAL COMPOSITION			%										REF.
Ethylene Dibromide			0.0003		X		X	0	X			CCD	
Tetraethyl Lead					X		X	0	X		X		CCD
Dye													
Blue: Essentially 1,4-di(iso-propyl-Amino Anthraquinone) (See Anthroquinone Dyes)													CCD
Yellow: Essentially Paradiethylamino Azobenzene			See Azo Dyes										
Red: Essential Methyl Derivatives of Azobenzene-4-Azo-2-Naphthol													
Chemical Additives in Petroleum Fuels:													
Oxidation Inhibitors													
Copper Deactivators													
Corrosion Inhibitors													

x - may be an effect
 o - no effect
 blank - no information

2911 1	GASOLINE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Combustion Chamber Deposit Modifiers													
Anti-Icing Compounds													
Anti-Knock Agents													
Anti-Static Additives													

x - may be an effect
 o - no effect
 blank - no information

2911 131	MOTOR GASOLINE												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Motor Fuel			Gleason										
Formula I													
Tetraethyl Lead		0-0.1		X		X	0	X		X		CCD	
Petroleum Hydrocarbons (e.g., Gasoline)		99-100										Gleason	
Additives		trace											
may contain:													
Alkyl Aryl Phosphate													
N,N'-Di-Sec-Butyl-Para-Phenylenediamine						X	X					CCD	
N,N'-Disalicylidene-1-2-Propanediamine						X						CCD	
Oil-Soluble Dyes													
Trimethyl Phosphate													

x - may be an effect
 o - no effect
 blank - no information

2911 131	MOTOR GASOLINE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Racing											
Methanol	30-70		X	X	O	O	X				CCD Merck 8 Heukelekian Lamb
Isopropanol	0-70			X	O	O					CCD Heukelekian
Castor Oil	0-30					X	X		X		Merck 8
Nitromethane	0-30				O	O					CCD
Diesel Fuel											
Kerosene				X							Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3955 01	INKED RIBBONS			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Plastic (See SIC 3079)				ASTM								
Fabric (See SIC 2211)												

x - may be an effect
 o - no effect
 blank - no information

3955 03	COATED CARBON PAPER (IN ROLL AND SHEET)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Paper		Pulp + Paper Cassey, Interscience Pub., NY 1966, 2nd Ed. pp. 1842- 1844									
Cotton (Natural Fibers)					X						CCD
Rag (Natural Fibers)					X						CCD
Hemp (Natural Fibers)					X						CCD
Sulfate and Sulfite Wood Pulp											
Wax											
Carnauba					X	X	X				CCD
Ceresin					X	X	X				CCD Merck 8
Beeswax					X	X	X				CCD Merck 8

x - may be an effect
 o - no effect
 blank - no information

3955 03	COATED CARBON PAPER (IN ROLL AND SHEET) (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Candelilla					X	X					CCD
Ozokerite					X	X					CCD
Synthetic Waxes											
Pigment											
Carbon Black			X		X	X					CCD Toxic Sub
Carbon	90										
Ash	4										
Acetone	2		X	X		0	X				CCD Toxic Sub Heukelekian Lamb
Residues	4										
Lake Pigments						X					CCD
Oil Insoluble Dyes				X		X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3955 03 COATED CARBON PAPER (IN ROLL AND SHEET) (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Mineral Oil		Pulp & Paper 1966									Merck 8
Oleic Acid			X		X	X					
Typewriter Carbon Paper											
Carnauba Wax	34				X	X	X				CCD
Ozokerite	6				X	X					CCD
Beeswax	7				X	X	X				CCD Merck 8
Petrolatum	6										
Mineral Oil	25										
Carbon Black	13		X		X	X					CCD Toxic Sub
Toners	6										
Oleic Acid	3		X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3955 03	COATED CARBON PAPER (IN ROLL AND SHEET) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%	REF.								
Carbon Black												CCD Toxic Sub Heukelekian Lamb
Burn Natural Gas Which Forms a Deposit of Carbon:												
Ash			27									
Acetone Extract			57		X	X	O	X				
Residue Particles			27									
Organic Dyes			none									

x - may be an effect
 o - no effect
 blank - no information

3955 061	STENCIL PAPER SPIRIT AND GELATIN PROCESS MASTER COPIES (INCLUDE MASTER SETS)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Stencils Dyed Wax Coating Fibrous, Yoshino Paper		K-0									

x - may be an effect
o - no effect
blank - no information

3961	COSTUME JEWELRY			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION			%									
Anodized Aluminum				E.B. 12,15, 20	X		X					Merck 8
Plastics (See SIC 3079)												
Cut Glass												
Colored Stones												
Artificial Pearls												
Nitrocellulose Mixture							X					Hackh's
Guanine Mixture						X	O					CCD
Glass Beads												
Plastics Beads (See SIC 3079)												
Niello (Inlaying Process)												
Silver Sulfide					X	X	X					Merck 8
Lead					X	X	X					Hackh's Merck 8 III-B

x - may be an effect
 o - no effect
 blank - no information

3961	COSTUME JEWELRY (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.										
Copper			X				X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3991 1	BROOMS																	
TYPICAL CHEMICAL COMPOSITION				%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.				
Bristles					Encyl. Brit.													
Polypropylene Fiber				Natural Fibers Synthetic Fibers					0	0				CCD				
Rattan																		
Corn																		
Polystyrene																		
Polyvinyl Chloride														X	X	0	CCD	
Bahia Bass																		
Palmyra Bassine																		
Kittul Palm																		
Casein														X	X	X	0	CCD
Animal Skin Protein																		
Plant Cellulose												Heukelekian						

x - may be an effect
 o - no effect
 blank - no information

3994	MORTICIANS GOODS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Embalming Fluid				K-0									
Formaldehyde					X	X	0	0	X				CCD Heukelekian
Quaternary Ammonium Compounds													
Sodium Derivative of Phenylphenol					X		X	X	X				Merck 8 III-B
Parachlorometacresol				Preservatives and Germicides	X		0	X	X				Merck 8
Tribromothymol													
Glyoxal					X		0	X	X				Merck 8 CCD
Glutaraldehyde							0						CCD

x - may be an effect
 o - no effect
 blank - no information

3994	MORTICIANS GOODS (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Glycerol	Diffusing Medium and Humectants		X	X	0	X	0				Merck 8 CCD III-B Heukelekian
Sorbitol					0	X	0				CCD
Glycols and Their Esters						0					Hackh's
Colloidal Modifying Agents											
Dyes				X		X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3999	MANUFACTURED PRODUCTS, N.E.C.		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Tear Gas Devices		Gleason									
Chloracetophenone			X			X	X				CCD Toxic Sub
Oleoresin Capsicum						X					CCD
Propellant											
Freon 12						O	X				CCD
Nitrogen			X		O	X	O				Merck 8
may contain:											
Orthochlorobenzamalonitrile											
Ethyl Bromoacetate			X		X	O					CCD

x - may be an effect
 o - no effect
 blank - no information

3999 111 SODA-ACID HAND PORTABLE FIRE EXTINGUISHERS MEETING THE SPECIFICATIONS OF UNDERWRITERS' LABORATORIES AND FACTORY MUTUAL LABORATORIES		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Soda Acid		Gleason									
Sodium Bicarbonate	97.5		X		0	X					Merck 8
Sulfuric Acid	2.5		X			0	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

3999 113	CARBON DIOXIDE, ETC. (AS FOR SODA-ACID EXTINGUISHERS)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Carbon Dioxide			Gleason									
Compressed Carbon Dioxide Gas		80-100										
Compressed Nitrogen Gas		0-20		X		0	X	0				Merck 8

x - may be an effect
 o - no effect
 blank - no information

3999 115	VAPORIZING LIQUID (CARBON-TETRACHLORIDE BASE) (AS FOR SODA-ACID EXTINGUISHERS)											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula I												
Carbon Tetrachloride	about 90		X	0	X	0	X					CCD Toxic Sub III-B Heukelekian
Trichlorethylene (Containing a Trace of Hydroquinone Mono-Methyl Ether)	about 10		X		X		X					Merck 8 III-B
Chloroform	about 10		X	X	0	0	X					Merck 8 Hackh's Toxic Sub III-B Heukelekian
Carbon Disulfide	less than 1		X		X	X	X					CCD Toxic Sub
Formula II												
Bromochloromethane												
Chlorobromoethane	100				X	0	X					CCD
Freons												

x - may be an effect
 o - no effect
 blank - no information

3999 115		VAPORIZING LIQUID (CARBON-TETRACHLORIDE BASE) (AS FOR SODA-ACID EXTINGUISHERS) (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION		%	REF.										
Bromotrifluoromethane		100											
Dichlorodifluoroethane		100					X	O	O				CCD
Dichlorotrifluoroethane		100											
Trichloromonofluoromethane		100		X		X			X				Merck 8 III-B
For Deep-Seated Fires													
Triton X-100													
Sodium Hydroxide				X			O						Merck 8
Sodium Dichromate				X			O	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3999 117	DRY CHEMICAL, AS FOR CARBON DIOXIDE											
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Powder Extinguishers			Gleason									
Formula I												
Sodium Bicarbonate		85-99		X		O	X					Merck 8
Potassium Bicarbonate						O	X	O				CCD
Metal Stearates												
Zinc		1-2		X		X		X				Merck 8
Aluminum						X	X				CCD	
Magnesium						X	X	O			CCD	
Silicones		0.5-3										
Flowing Agents												
Mica		1-15					X					CCD
Talc		1-15					X					CCD
Alumina		1-15				X	X					CCD

x - may be an effect
 o - no effect
 blank - no information

3999 117	DRY CHEMICAL, AS FOR CARBON DIOXIDE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Aerogels	1-15										
Tricalcium Phosphate	1-15				X	X	O				CCD Merck 8
Vegetable Coloring Matter						X					
Formula II											
Ammonium Phosphate, Monobasic	70-85				O	X		X			CCD
Potassium Sulfate	10-25										
Clays	3-10										
Aerogels											
Silicones	0.5-3										
Miscellaneous Dry											
Borax Compounds	90-100		X		O	X					CCD Toxic Sub

x - may be an effect
 o - no effect
 blank - no information

3999 117	DRY CHEMICAL, AS FOR CARBON DIOXIDE (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Clays (Bentonite)	100				X	X					CCD Merck 8
Pitch	100										
Graphite	100					X					CCD

x - may be an effect
 o - no effect
 blank - no information

3999 118	PRESSURIZED WATER, AS FOR CARBON DIOXIDE										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Water Base		Gleason									
Formula I											
Calcium Chloride	30-40		X								Toxic Sub
Sodium Dichromate	0.5-2		X		0	X					CCD
Sodium Chromate					0	X					CCD
Water	q.s.										
Formula II											
Potassium Carbonate	35-45				0	X					CCD
Ethylene Glycol	1-3		X		0						Merck 8
Sodium Dichromate	0.5-2		X		0	X					CCD
Sodium Chromate					0	X					CCD
Water	q.s.										

x - may be an effect
 o - no effect
 blank - no information

3999 118	PRESSURIZED WATER, AS FOR CARBON DIOXIDE (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Formula III											
Sodium Hydroxide			X		0						Merck 8
Sodium Dichromate			X		0	X					CCD
Isooctyl Phenyl Polyethoxy Ethanol											

x - may be an effect
 o - no effect
 blank - no information

3999 119	OTHER EXTINGUISHERS INCLUDE FOAM, AS FOR CARBON DIOXIDE										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Foam Fire Extinguishers		Gleason									
Mechanical Foams											
Hydrolyzed Protein	25-45										
Ethylene Glycol	3-6		X	X							Merck 8 III-B Heukelekian Lamb
Cellosolve Acetate	3-6				0	0	X				CCD
Heavy Metal Salts											
Iron {	0.5-2		X								Gleason
Zinc }		X		0					Gleason		
Bactericide	1 max.										
Powder Foams											
Single Generator Powders with All Ingredients in One System											

x - may be an effect
 o - no effect
 blank - no information

3999 119	OTHER EXTINGUISHERS INCLUDE FOAM, AS FOR CARBON DIOXIDE (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Lignums		2-6											
Glues		2-6											
Egg Albumen		2-6											
Dry Hydrolyzed Protein		2-6											
Liquid Foams													
Charge "A"													
Aluminum Sulfate-Sta. Solution				X		0	X					CCD Merck 8 Toxic Sub	
Charge "B"													
Sodium Bicarbonate		5-7		X		0	X					Merck 8	
Water		to 100											
Stabilizer													
Licorice Extracts		4-6											

x - may be an effect
 o - no effect
 blank - no information

3999 119	OTHER EXTINGUISHERS INCLUDE FOAM, AS FOR CARBON DIOXIDE (Cont'd)										
TYPICAL CHEMICAL COMPOSITION	%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Lignums	4-6										
Egg Albumen	4-6										
Glues	4-6										
Dry Hydrolyzed Protein	4-6										
Miscellaneous Fire Extinguishers											
Methyl Bromide	100		X			X	X				CCD

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Head		Gleason									
Glue (Animal)	10-12										CCD
Potassium Chlorate	40-60		X		O	X					CCD Merck 8
Sulfur	3-6		X		X	X					Merck 8
Wood Rosin	0-5										
Synthetic Resins											
Silica Flour (or Ground Glass)	0-5		X		X	X					CCD Merck 8
Phosphorus Sesquisulfied (Strike- Anywhere Matches Only)	1-10										
Coloring Dyes	0.5-0.3			X		X					CCD Heukelekian
may contain:											

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Corn (Starch)	1-3			X	X	X					CCD Heukelekian
Infusorial Earth	3-8										
Formaldehyde	negligible		X	X	O	O	X				CCD Heukelekian
Gums											
Tragacanth }					X		O				Merck 8
Arabic }	0-2				O	X	X				CCD
Plaster of Paris	0-5										
Potassium Dichromate	0.2-0.5		X		O	X					CCD
Pumice	0-5			X							CCD
Zinc Oxide	0-5				X	X	O				CCD
Stick											
Paraffin (Crude Scale or Slack Wax)	0.005-0.015 gm./stick				X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
	TYPICAL CHEMICAL COMPOSITION	%									
	Ammonium Phosphate	negligible			0	X		X			CCD
	Striking Surface										
	Binder										
	Synthetic Resins	15-40									
	Latex										
	Natural Gum Arabic				0	X	X				CCD
	Red Phosphorus	40-60	0		X	X					Merck 8 CCD
	Silica Flour (or Ground Glass)	20-40	X		X	X					CCD Merck 8
	Coloring Dyes	0.1-5		X		X					CCD Heukelekian
	Pigments				X	X					CCD
	Formula for Striker of Commercial Safety Match										

x - may be an effect
 o - no effect
 blank - no information

3999 3 MATCHES (Cont'd)			TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Animal Glue } Casein }	16			X	X	X	0				CCD Heukelekian
Red Phosphorus	50		0		X	X					CCD Merck 8
Calcium Carbonate	5				X	X	0				CCD
Powdered Glass	25										
Carbon Black	4		X		X	X					CCD Toxic Sub
Commercial Safety Match											
Animal (Hide) Glue	9-11										
Starch	2-3			X	X	X					CCD Heukelekian
Sulfur	3-5		X		X	X					Merck 8

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Potassium Chlorate	45-55		X		O	X					CCD Merck 8
Neutralizer											
Zinc Oxide					X	X	O				CCD
Calcium Carbonate	3				X	X	O				CCD
Diatomaceous Earth	5-6										
Other Siliceous Fillers											
(Powdered Glass; "Fine" Silica)	15-32		X		X	X					CCD Merck 8
Burning Rate Catalyst											
Potassium Dichromate	to suit		X		O	X					CCD
Lead Thiosulfate											
Water-Soluble Dye	to suit			X		X					CCD Heukelekian

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES (Cont'd)												
TYPICAL CHEMICAL COMPOSITION		%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.	
Strike-Anywhere Match													
Tip													
Animal Glue		11											
Extender (Starch)		4			X	X	X					CCD Heukelekian	
Potassium Chlorate		32		X		O	X					CCD Merck 8	
Phosphorus Sesquisulfide		10											
Rosin		4				X	X					CCD	
Powdered Glass and Other Filler		33											
Zinc Oxide		6				X	X	O				CCD	
Base													
Animal Glue		12											
Extender (Starch)		5			X	X	X					CCD Heukelekian	

x - may be an effect
 o - no effect
 blank - no information

3999 3	MATCHES (Cont'd)		TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%	REF.									
Potassium Chlorate	37		X		O	X					CCD Merck 8
Phosphorus Sesquisulfide	3										
Rosin	6				X	X					CCD
Powdered Glass and Other Filler	21.5										
Zinc Oxide	1				X	X	O				CCD

x - may be an effect
 o - no effect
 blank - no information

3999 411	CANDLES INCLUDING TAPERS												
TYPICAL CHEMICAL COMPOSITION			%	REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
Church				Gleason									
Beeswax			5-52	K-0			X	X	X				Merck 8 CCD
Paraffin			60-85	K-0			X	X					Merck 8
The Candle Wick is Treated With:													
Ammonium Chloride					X		0	X	0				Merck 8 CCD Toxic Sub III-B
Ammonium Phosphate							0	X		X			CCD
Ammonium Sulfate							0	X					CCD
Borax					X		0	X					CCD Toxic Sub
Boric Acid					X		0	X	0				Merck 8 Hackh's Toxic Sub
Potassium Nitrate					X		0	X		X			Merck 8

x - may be an effect
 o - no effect
 blank - no information

3999 411 CANDLES INCLUDING TAPERS (Cont'd)		REF.	TOXICITY	OXYGEN DEMAND	SOLIDS	COLOR	ODOR	EUTROPHICATION	OILS AND TARS	HARDNESS	REF.
TYPICAL CHEMICAL COMPOSITION	%										
Household		Gleason									
Stearic Acid	20-35	K-0			X	0	X				CCD
Paraffin	60-85	K-0			X	X					Merck 8
Dye (Minute Amount)				X		X					CCD Heukelekian
Wick (See Church Candles)											

x - may be an effect
 o - no effect
 blank - no information