530 Sw 900270 Cleaning Agents and Cosmetics Manufacturers

Industry Overview

Not all businesses in the cleaning agents and cosmetic manufacturing category use hazardous substances. If, however, you use solvents, ignitable liquids, strong acids or bases, heavy metals, toxic organic constituents, or pesticides, you might generate hazardous waste. If you generate hazardous waste, you might be subject to the Resource Conservation and Recovery Act (RCRA) requirements covering the generation, transportation, and management of hazardous waste.

Your business is included in the cleaning agents and cosmetics manufacturing category if you formulate or manufacture:

- · Soaps, detergents or specialty cleaners
- · Polishing or sanitizing compounds
- · Surfactants, finishing agents, or sulfonated oils and other assistants
- · Perfumes
- Cosmetics
- · Toilet preparations or sundries.

Hazardous Wastes from Cleaning Agents and Cosmetics Manufacturing

Manufacturers of cleaning agents and cosmetics use a wide range of processes and products, and many types of waste are generated. Table 1 summarizes the major hazardous waste types generated by manufacturers of cleaning agents and cosmetics, and Table 2 provides information about specific hazardous wastes. Generally, hazardous wastes from cleaning agents and chemical manufacturing are solvent wastes, pesticide wastes, acid/alkaline wastes, and heavy metal wastes. Wastewaters and sludges from cleaning equipment used in the formulation of soaps and stabilizers containing chromium and lead are listed hazardous wastes.

If you generate more than 100 kilograms (220 pounds or about one-half of a 55-gallon drum) of hazardous waste per month, you must complete a Uniform Hazardous Waste Manifest when shipping your waste. The Manifest requires the DOT (Department of Transportation) description of the waste, including the shipping name, hazard class, and UN/NA ID number. This information is provided in Table 2 for some wastes generated by manufacturers of cleaning agents and cosmetics. Table 1 and Table 2 are not comprehensive lists. If you suspect that you generate a hazardous

waste that is not on this list, contact your state hazardous waste management agency or EPA Regional office for assistance.

Waste Minimization

An effective waste minimization program can reduce the costs, liabilities, and regulatory burdens of hazardous waste management, while potentially enhancing efficiency, product quality, and community relations. Waste minimization techniques that can help you reduce the amount of hazardous waste that you generate include:

- Production planning and sequencing
- · Process/equipment adjustment or modification
- · Raw material substitution
- · Loss prevention and housekeeping
- · Waste segregation and separation
- · Recycling.

Training and supervision of employees implementing waste minimization techniques is an important part of your successful program. Call the RCRA/Superfund Hotline toll-free at 800-424-9346 (or TDD 800-553-7672 for the hearing-impaired) for waste minimization information and publications.

Table 1 **Typical Cleaning Agents and Cosmetics Manufacturing** Operations: Materials Used and Hazardous Wastes that Might be Generated

Process/ Operation	Materials Used	General Types of Waste Generated
Cleaning Agent Manufacturing	Solvents, heavy metals, pesticides, organic-chemicals, metals, strong acids and bases	Solvent wastes Toxic wastes Pesticide wastes Ignitable wastes Toxic heavy metal sludges and dusts Acid/alkaline wastes
Cosmetic Manufacturing	Solvents, organic chemicals, metals	Solvent wastes Toxic wastes Toxic heavy metal sludges

Table 2

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Designations/Trade Names INE WASTES Ammonium Hydroxide, NH ₄ 0H, Spirit of Hartshorn, Aqua Ammonia Hydrobromic Acid, HBr Hydrochloric Acid, HCl, Muriatic Acid	Waste Ammonium Hydroxide (containing not less than 12% but not more than 44% ammonia) (containing less than 12% ammonia)	Corrosive Material	NA2672
Ammonium Hydroxide, NH ₄ 0H, Spirit of Hartshorn, Aqua Ammonia Hydrobromic Acid, HBr	Waste Ammonium Hydroxide (containing not less than 12% but not more than 44% ammonia) (containing less than 12% ammonia)	ann i angere van	NA2672
of Hartshorn, Aqua Ammonia Hydrobromic Acid, HBr	less than 12% but not more than 44% ammonia) (containing less than 12% ammonia)	ann i angere van	NA2672
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Hydrobromic Acid, HBr		CAIVI-A	NA2672
Hydrochloric Acid. HCl. Muriatic Acid	Waste Hydrobromic Acid	Corrosive Material	UN1788
	Waste Hydrochloric Acid	Corrosive Material	NA1789
Hydrofluoric Acid, HF, Fluorohydric Acid	Waste Hydrofluoric Acid	Corrosive Material	UN1790
Nitric Acid, HNO ₂ , Aquafortis	Waste Nitric Acid (over 40%)	Oxidizer	UN2031
	(40% or less)	Corrosive Material	NA1760
Phosphoric Acid, H ₃ PO ₄ , Orthophosphoric Acid	Waste Phosphoric Acid	Corrosive Material	UN1805
Potassium Hydroxide, KOH, Potassium Hydrate, Caustic Potash, Potassa	Waste Potassium Hydroxide Solution	Corrosive Material	UN1814
Control of the control of the second control of the	Dry Solid, Flake, Bead, or Granular	Corrosive Material	UN1813
Sodium Hydroxide NaOH, Caustic Soda,	Waste Sodium Hydroxide Solution	Corrosive Material	UN1824 UN1823
			UN1832
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Alcohol	salara Marija gistera masan maja yahagi shinjaga maja ili dibaha ja da gia dipahaga maja ili mana ka kirasa da	Flammable Liquid ³ Combustible Liquid ⁴	UN1987 UN1987
Aromatic Hydrocarbons	Waste Flammable Liquid, NOS	Flammable Liquid	UN1993 NA1993
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Methyl Benzene, Toluol	na haradhadhada agunun anda "anadhadhannanga ar umah andandhada yana kadigi ya yili angali. Magandad ugunun garin bada yana kada kada kada kada kada kada kada k	•••	UN1294
Dimethyl Benzene, Xylol	Waste Xylene	Flammable Liquid	UN1307
and the state of	Waste Combustible Liquid, NOS Waste Flammable Liquid, NOS	Combustible Liquid Flammable Liquid	NA1993 UN1993
White Spirits, Mineral Spirits,	Waste Naphtha, Solvent	Flammable Liquid	UN1256
Aerothene TT, Chlorten,	Waste 1,1,1-Trichloroethane	ORM-A	UN2831
Alpha T, Chlorotene	A STATE OF THE STA	to a survivat Mark to the Charles on the	of a filter of the con-
Petroleum Distillates	Waste Petroleum Distillates	Flammable Liquid Combustible Liquid	UN1268 UN1268
Dichloroethane	Waste Ethylene Dichloride	Flammable Liquid	UN1184
Renzes	Waste Benzene (benzol)	Flammable Liquid	UN1114
Ethyl Benzene	Waste Ethyl Benzene	Flammable Liquid	UN1175
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Phenylchloride		many sample measurement of the second	Company district to a suspension of the con-
17. 小线线 20.00 · 10.00	Phosphoric Acid, H ₃ PO ₄ , Orthophosphoric Acid Potassium Hydroxide, KOH, Potassium Hydrate, Caustic Potash, Potassa Sodium Hydroxide NaOH, Caustic Soda, Soda Lye, Sodium Hydrate Sulfuric Acid, H ₂ SO ₄ , Oil of Vitriol Chromic Acid MD IGNITABLE WASTES AND/OR To Alcohol Ethanol, Alcohol Isopropanol Methyl Benzene, Toluol Dimethyl Benzene, Kylol White Spirits, Mineral Spirits, Naphtha Aerothene TT, Chlorten, Chloroethene, Methyl-Chloroform, Alpha T, Chlorotene Petroleum Distillates Ethylene Dichloride, 1,2- Dichloroethane Benzene Chlorobenzene, Monochlorobenzene, Phenylchloride Chlorobenzene, Monochlorobenzene, Phenylchloride Chlorobenzene, Monochlorobenzene, Phenylchloride	Phosphoric Acid, H ₃ PO ₄ , Orthophosphoric Acid Potassium Hydroxide, KOH, Potassium Hydrate, Caustic Potash, Potassa Sodium Hydroxide NaOH, Caustic Soda, Soda Lye, Sodium Hydrate Suffuric Acid, H ₂ SO ₄ , Oil of Vitriol Chromic Acid HO IGNITABLE WASTES AND/OR TOXIC WASTES CONTAINING: Alcohol Waste Alcohol, NOS ² Waste Ehyl Alcohol Isopropanol Methyl Benzene, Toluol Dimethyl Benzene, Toluol Dimethyl Benzene, Mylol Dimethyl Benzene, Mylol Dimethyl Benzene, Methyl-Chloroform, Alpha T, Chlorotene Petroleum Distillates Benzene Elhyl Benzene Chlorobenzene, Monochlorobenzene, Pfenylchloride Waste Chlorobenzene Waste Chlorobenzene Waste Ethyl Benzene Chlorobenzene, Monochlorobenzene, Pfenylchloride Waste Chlorobenzene Waste Chlorobenzene Waste Chlorobenzene Waste Chlorobenzene Waste Ethyl Benzene Waste Chlorobenzene Waste Ethyl Benzene Waste Chlorobenzene	Phosphoric Acid, H ₃ PO ₄ , Waste Phosphoric Acid Corrosive Material Orthophosphorie Acid Potassium Hydroxide, KOH, Potassium Hydroxide, KOH, Potassium Hydroxide, KOH, Potassium Hydroxide Notasium Hydrox

Table 2 (continued)
Cleaning Agents and Cosmetics Manufacturing Waste Descriptions¹

Waste Type	Designations/Trade Names	DOT Shipping Name	Hazard Class	UN/NA ID Number
2,4,5-T	2,4,5-Trichlorophenoxy Acetic Acid, Brush-Rap, Farmers Fence Rider, Weedone	Waste 2,4,5-Trichlorophenoxyacetic Acid Waste 2,4,5-Trichlorophenoxyacetic Acid (amine, ester, or salt)	ORM-A ORM-E	NA2765 NA2765
		Waste Phenoxy Pesticide, Liquid, NOS	Flammable Liquid	UN2766
Silvex*	2,4,5-Fenoprop, Fruitone T, Kuron, Weed-B-Gone	Waste 2-(2,4,5-Trichlorophenoxy) propionic Acid	ORM-A	NA2765
	Trock D Gold	Waste 2-(2,4,5-Trichlorophenoxy) propionic Acid Ester	ORM-E	NA2765
		Waste Phenoxy Pesticide, Liquid, NOS Waste Phenoxy Pesticide, Liquid, NOS	Flammable Liquid Poison B	UN2766 UN2765
ORGANOCHLORINE F	PESTICIDES			
Aldrin	HHDN, Aldrex 30, Altox, Drinox, Octalene, Seedrin Liquid	Waste Aldrin Waste Aldrin Mixture, Dry (with more than 65%	Poison B Poison B	NA2761 NA2761
		Aldrin) Waste Aldrin Mixture, Dry (with 65% or less Aldrin)	ORM-A	NA2761
		Waste Organochlorine Pesticide, Liquid, NOS	Flammable Liquid	UN2762
Chlordane*	Chlorkil, Corodane, Octachlor	Waste Chlordane, Liquid Waste Chlordane, Liquid	Flammable Liquid Combustible Liquid	NA2762 NA2762
DDT	DDT	Waste DDT	ORM-A	NA2761
Dichloropropene	1,3-Dichloropropene	Waste Dichloropropene	Flammable Liquid	UN2047
Dieldrin	Dieldrin, Dieldrex, Dieldrite	Waste Dieldrin	ORM-A	NA2761
Endrin*	Endrin, Endrex, Hexadrin	Waste Endrin, Liquid Waste Endrin Mixture	Poison B Poison B	NA2761 NA2761
Endosulfan	Crisulfan, Malix	Waste Endosulfan Waste Endosulfan Mixture, Liquid	Poison B Poison B	NA2761 NA2761
Heptachlor*	Gold Crest H-60, Drinox H-34, Heptamul, Heptox	Waste Heptachlor Waste Organochlorine Pesticide, Liquid, NOS	ORM-E Flammable Liquid	NA2761 UN2762
Kepone	Chlordecone, GC 1189	Waste Kepone Waste Organochlorine Pesticide, Liquid, NOS	ORM-E Flammable Liquid	NA2761 UN2762
Lindane*	Exgama, Forlin, Gallogama, Gamaphex, Gammex, Inexit, Isotox, Lindafor, Lindagam, Lindagrain, Lindagranox, Lindalo, Lindamul, Lindapourdre, Lindaterra, Novigam, Silvanol	Waste Lindane Waste Organochlorine Pesticide, Liquid, NOS	ORM-A Flammable Liquid	NA2761 UN2762
Methoxychlor*	Flo Pro MeSeed Protectant, Marlate	Waste Methoxychlor Waste Organochlorine Pesticide, Solid, NOS Waste Organochlorine Pesticide, Liquid, NOS Waste Organochlorine Pesticide, Liquid, NOS	ORM-E Poison B Poison B Flammable Liquid	NA2761 UN2701 UN2761 UN2762
Propylene Dichloride	1,2-Dichloropropane	Waste Propylene Dichloride	Flammable Liquid	UN1279
Toxaphene*	Attac 4-2, 4-4, 6, 6-3, 8, Camphochlor, Motox, Phenacide, Phenatox, Strobane T-90, Toxakil, Toxon 63	Waste Toxaphene Waste Organochlorine Pesticide, Liquid, NOS	ORM-A Flammable Liquid	NA2761 UN2762
OTHER WASTES				
Ignitable Wastes, NOS		Waste Flammable Liquid, NOS Waste Flammable Solid, NOS Waste Combustible Liquid, NOS	Flammable Liquid Flammable Solid Combustible Liquid	UN1993 UN1325 NA1993
Hazardous Waste		Hazardous Waste, Liquid or Solid, NOS	ORM-E	UN9189

- * Toxicity Characteristic constituent. Any waste that results in a TCLP extract containing a Toxicity Characteristic constituent equal to or above regulatory levels is hazardous.
- 1 These descriptions may change given variations in waste characteristics or conditions. Note that the DOT shipping name, hazard class, and UN/NA ID number do not directly correspond to RCRA hazardous waste categories.
- 2 NOS Not otherwise specified.
- 3 A flammable liquid has a flash point below 100°F.
- 4 A combustible liquid has a flash point between 100°F and 200°F.