SEPA Pesticide **Fact Sheet**

Name of Chemical: BRONOPOL

Reason for Issuance:

Date Issued: August 2, 1984

Fact Sheet Number:

32

1. Description of Chemical

Generic Name: 2-Bromo-2-mitropropane-1,3-dio1

Common Name: Bronopol - Boots

Trade Name: Myacide BlO, Myacide AS

EPA Shaughnessy Code: 216400

Chemical Abstracts Service (CAS) number: 52-51-7

Year of initial registration: August 2, 1984 (EPA Reg. No. 33753-1; MUP)

Pesticide Type: Bactericide Chemical Family: Alcohol Producers: U.S.____none

Foreign The Boots Co., PLC

2. Use Patterns and Formulations

Application Sites: pesticide manufactering facilities.

Types of Formulations: crystalline powder

Types and Methods of application: the only registration is for manufac-

turing use only. N/A Application rates: N/A Usual carriers: water

3. Science Findings

Chemical Characteristics:

Physical state: white crystalline powder

Melting point: approx. 130°C

Bulk density: 1.10 mg/ml

Solubility:

in ethanol 50Z in water (25°C) 25% in ethylene glycol 617 in chloroform 0.97

Toxicity Characteristics:

Study Effects Catagory Eye Irritation 5% solution strongly irritating I Skin Irritation a severe irritant I Dermal LD50 not specified I Oral LD50 (mg/kg): orally administered..... male 307 & female 342 (rat) male 374 & female 327 (mouse) intraperitoneal male 22.0 & female 30.2 (rat) male 22.8 & female 34.7 (mouse) Inhalation LC_{50} $LC_{50} > 5$ mg/L III Dermal Sensitizationnot a skin sensitizer 90 day Oral (rat) no observable effect level: 20 mg/kg/day lowest effect level: 80 mg/kg/day Teratology no observable effect level: 3.3 mg/kg/day (rabbit) lowest effect level: 10 mg/kg/day

Physiological and Biochemical Behavioral Characteristics:

Foliar absorption: N/A Translocation: N/A

Mechanism of pesticidal action: N/A

Metabolism and persistence in plants and animals: N/A

Environmental Characteristics:

Adsorption and leaching basic soil types: N/A

Microbial breakdown: N/A

Hydrolysis: bronopol appears to hydrolyze slowly at acidic or neutral pH conditions. Bronopol decomposes in aqueous solution on exposure to light. Increases in temperature increases decomposition. Label required to disallow any pesticide waste discharge into aquatic environments.

Bioaccumulation: N/A

Ecological Characteristics:

Mallard duck Acute Oral LD50 = 510 mg/kg Fresh Water Invertebrate (Daphnia) 48 hr EC50 = 1.4 mg/L

Efficacy Data: N/A

Tolerance assessments: N/A, no crop applications.

Problems which are known to have occurred with use of the chemical (e.g., PIMS): none

4. Summary of Regulatory Position and Rationale:

Use Classification: General Use Use, formulation, manufacturing process or geographical restrictions: do not discharge into aquatic environments unless in accordance with and NPDES permit.

Unique warning statements required of labels: none Summary of risk/benefit review: none, risk assessment was not conducted.

5. Summary of major data gaps

The following studies are to submitted by December 13, 1984:

- a. Avian Acute LC50
- b. Fish Acute LC50 (Rainbow trout)
- 6. Contact person at EPA:

John H. Lee,

Product Manager 31 Disinfectants Branch

Registration Division (TS-767C)

Tel. (703) - 557-3675

DISCLAIMER: The information presented in this Chemical Information Fact Sheet is for informational purposes only and may not be used to fulfil data requirements for pesticide registration and reregistration.

DIRECTIONS HER UNE

It is a violation of Federal Law to see thre product in a manage inconstatent outh its labelling.

For use by manufacturers in formulating disinfectants, canitizers, and promerve tives.

Portulators using this product are responsible for obtaining EPA registration for their formulated product and for providing appropriate data.

STORAGE AND DISPORAL

- Do not contaminate water, food, or food by storess or disposal. Keep away from beat.
- -- Posticide wastes are scutely hesardous. Improper disposal of excess posticide, epray misture, or riamte is a violation of Paderal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Posticide or Environmental Control Assocy, or the Hazardous Vaste representative at the nearest RPA Musicial Office for guidance.
- Completely camty liner by shaking and tapping sides and bottom to loosen clinging particles. Bunty residue into application equipment. Triple riose (or equivalent). Then offer drum for recycling or reconditioning. or nuncture. Dissource of drum and liner in a manitary landfill, or by incineration, if allowed by State and local authorities. If turnet, etay out of make.

EPA Registration No. 33753-1 NA Retablishment No. 33757-FN ()

BHENEVILLE - IKKUTS'IM

For two in Pormulation Indoor Products*

*Including Distofuctants, Shottimurs, and Preservatives.

Active Ingredient:

2-Bross-S-eitropropage-1.3-dral

Inert Imtrediente: Total TOOK

Net Contente:

Keep Out Of Reach Of Children DANGER

Statement of Practical Treatment

In case of contact, interliately flush eyes or skin with pleaty of eater for at lenet 15 minutes. For even, call a physician. If southouse, drink milk, mer whitee, gulatin culution or if these are not available, drink large quantities of water. Call a physician.

Note To Physician

Protable maximal durage may centra indicate the use of gantiir lavage. Measures against circulatory shock, respiratory depression and convolution may be needed.

See side manel for additional precautionary statements.

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Chemical and Physical Properties

Molucular Weight 200 Solubility in Water (25°C) 255 m/v 80% W/W in Kihanol 015 m/w in Sthyleen glycol in Chloruform 0.95 W/V

Bulk Density 1.1 04/24 Maittes Point ADDITOR LAU'C Hipercal State mite, or sient white orystale

or crretalline powder.

CONTRA ATA

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Gronopol-Buote to compatable with nun-tonic or entinnic additives, and with asiumic additives which are coutral or schile.

PRICAUTICHARY STATEMENTS

Hazarde To Hussans And Domestic Antesia

Marie Marie Marie Marie Maria DANGER: Curroutve. Causes eye and ekin demage. Do not get in eves or ekin or on clothing. Hay be fatal if smallound. Avoid breathing dust. Year gongles or face chield and subbur gloves then handling.

LOTY I HUNGALINTAL HAZARDYS

Do not discharge Late lakes. etreens, ponds or public untur unlows in accordance with an NADES swratt. For muldance contact your Restonal Office of the RPA.

REST DOCUMENT AVAILABLE