

F-HG4407

Date 8-1-05

#6440

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 3 Flammability = 0 Reactivity = 0
HMS RATING: Health = 3 Flammability = 0 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (04338)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** ALPINE DISINFECTANT**Address:** 302 North Fourth Street**Date Prepared:** September 19, 2000

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: (800) 424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)

Other information calls: (816) 233-1321 (Ext. 8285)<http://www.hillyard.com>**SECTION II - INGREDIENTS/IDENTITY INFORMATION****Components****(Specific Chemical Identity:****Common Name(s)****CAS#****OSHA PEL****ACGIH TLV****OTHER LIMITS
RECOMMENDED****%**

Octyl Decyl Dimethyl Ammonium Chloride

Dioctyl Dimethyl Ammonium Chloride

Didecyl Dimethyl Ammonium Chloride

OR

Di-N-Alkyl (C₈/C₁₀-50%; C₁₀/C₁₀-30%; C₈/C₈-

68424-95-3

not established

not established

N/A

1.08

20%) dimethyl ammonium chloride

Alkyl (C₁₄, 50%; C₁₂, 40%; C₁₆, 10%) Dimethyl

68424-85-1

not established

not established

N/A

0.72

Benzyl Ammonium Chloride

Ethanol

64-17-5

1000 ppm

1000 ppm

N/A

less than
2%

Sodium metasilicate

6434-92-0

not established

not established

2 mg/m³

0.2 - 0.7

Water

7732-18-5

none

none

N/A

Tetrasodium ethylene diamine tetraacetate

64-02-8

not established

not established

N/A

Nonylphenol Ethoxylate

9016-45-9

not established

not established

N/A

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** 738 mm 202°F**Specific Gravity (H₂O = 1):** 25°C = 1.01 & 39°C = 1.01**Vapor Pressure (mm Hg.):** 17.6**Percent Volatile by Volume (%):** 92.6**Vapor Density (AIR = 1):** less than 1**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** appreciable**Appearance and Odor:** green liquid; alpine odor**pH of concentrate:** 12.4 - 13.4**SECTION IV - FIRE AND EXPLOSION HAZARD DATA****Flash point:** None to boiling (T.C.C.)**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Water, dry chemical, carbon dioxide, foam**Special Fire Fighting Procedures:** Wear MSHA/NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water spray.**Unusual Fire and Explosion Hazards:** Products of combustion are toxic.**SECTION V - PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** Do not mix with anionic cleaners.**Incompatibility (Materials to Avoid):** oxidizing materials**Hazardous Decomposition Products or Byproducts:** Carbon dioxide, carbon monoxide, ammonia, nitrous oxides, hydrogen chlorides**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** none known**SECTION VI - HEALTH HAZARD DATA****Routes of entry:** Inhalation? yes

Skin? yes

Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Concentrate is corrosive to all body tissue with which it comes in contact.

2. Prolonged and repeated exposure to the skin may produce dermatitis. Fine fog mist application is not recommended.

SECTION VI - HEALTH HAZARD DATA cont.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

Signs and Symptoms of Exposure: Direct eye contact can cause severe damage; repeated skin contact can cause severe irritation; concentrate is corrosive to eyes and skin. Ingestion of concentrate: immediate burning pain in mouth, throat, abdomen and severe swelling of larynx, skeletal muscle paralysis and affecting the ability to breathe.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis.

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly a large quantity of egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid separately to containers for recovery or disposal. Small spills: Flush with water and pick up with wet vac or mop when on inside flooring. The pH of the concentrate is 12.4-13.4, thus concentrate is defined as corrosive per EPA Hazardous Waste Classification; when diluted with normal tap water for use to pH below 12.5 is not corrosive per EPA definition but still a pesticide waste.

Waste Disposal Method: Pesticide wastes are acutely hazardous. Do not contaminate water, food or feed by storage or disposal. If these wastes cannot be disposed of by use according to label instructions contact you state pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Office for guidance.

Precautions To Be Taken In Handling And Storing: Do not store on side. Avoid creasing or impacting of side walls of package. Other Precautions: Container disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type): None normally required. If exposed to fine mist droplets of less than 15 microns, a NIOSH/MSHA approved respirator should be worn.

Ventilation: 10 air changes per hour recommended

Local Exhaust = N/A Mechanical (General) = recommended Special = N/A Other = N/A

Protective Gloves: rubber or neoprene with concentrate Eye Protection: chemical goggles or face shield with concentrate

Other Protective Clothing or Equipment: None

Work / Hygiene Practices: Wash thoroughly after handling.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = no; IMCO = no; IATA = no

Proper shipping name: Cleaning Compound

UN No.: not applicable Limited Qty.: not applicable Hazard Class: not applicable

Labels required: not required DOT Exception: not applicable

EPA Hazardous waste number/code: not listed

Hazardous waste characteristics:

Ignitability = not applicable; Corrosivity = yes; Reactivity = not applicable

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