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#185

MATERIAL SAFETY DATA SHEET
EPA Reg. No. 6836-169-1658

EPA Est. No. 1658-MO-1

NFPA RATING: Health = 3 Flammability = 2 Reactivity = 0
HMIS RATING: Health = 3 Flammability = 2 Reactivity = 0

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (1119A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** PINE-O-CIDE II**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** September 7, 2006**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****%**

Isopropanol (1)

67-63-0

400 ppm

400 ppm

STEL - 500

4.75

Pine oil (2)

8002-09-3

not listed

not listed

N/A

3.95

Alkyl (C₁₄, 58%; C₁₆, 28%; C₁₂, 14%)

139-07-1

not listed

not listed

N/A

1.97

dimethyl benzyl ammonium chloride

1139-08-2

122-18-9

Primary alcohol ethoxylate

68439-46-3

Not listed

Not listed

N/A

2 - 4%

Deionized water

7732-18-5

none

none

N/A

(1) Regulated by OSHA and the following states: CT, FL, IL, LA, MA, NJ, PA, RI.

(2) Regulated by states: CT and LA

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** 201°F**Specific Gravity (H₂O = 1):** 25°C = 0.99 & 39°C = 0.99**Vapor Pressure (mm Hg.):** 17**Percent Volatile by Volume (%):** average 93.6**Vapor Density (AIR = 1):** 0.7**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** appreciable**Appearance and Odor:** brown liquid; pine odor**pH of concentrate =** 7.4-8.0**SECTION IV - FIRE AND EXPLOSION HAZARD DATA****Flash point:** 110°F (Tag Closed Cup)**Flammable Limits:** LEL = 2.1 UEL = N/A**Extinguishing Media:** Dry chemical, CO₂, alcohol 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 may be toxic. Keep away from heat, sparks and open flame.**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 chloride on thermal decomposition**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. Contact with concentrate causes severe eye and skin damage.

2. None known.

Chemical listed as Carcinogen or Potential Carcinogen:**National Toxicology Program =** No**I.A.R.C. Monographs =** No**OSHA =** No

This product has no carcinogens listed by IARC, NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

SECTION VI – HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Direct eye contact can cause damage; skin contact can cause damage; ingestion of concentrate can cause irritation of mouth, throat and abdomen.

Medical Conditions Generally Aggravated by Exposure: None known

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 promptly drink a large quantity of milk, raw egg whites or gelatin solution. If these are not available drink a large quantity of water. Avoid alcohol. Call a physician immediately.

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.

Waste Disposal Method: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Incinerate concentrate at an approved chemical waste facility.

Precautions To Be Taken In Handling And Storing: Avoid creasing or impacting of side walls of package. Do not use, pour or spill near heat, sparks or open flame.

Other Precautions: Triple rinse empty container with water before disposal. Remove and wash contaminated clothing before reuse. 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 of 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not required

Ventilation:

Local Exhaust = Recommended **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 / Hygienic Practices: Wash thoroughly after handling. Do not contaminate water, food or feed by storage or disposal.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = no, IMCO = yes, IATA = yes

Proper shipping name for air and foreign water: Flammable Liquid, n.o.s. (Isopropyl alcohol), 3, UN1993, III

Proper shipping name for U.S. Highway: Cleaning compound

UN No.: not applicable for highway **Limited Qty.:** not applicable **Hazard class:** not applicable for highway

Labels required: not required for highway **DOT Exception:** not applicable

EPA Hazardous waste characteristics: Ignitability=applicable; Corrosivity=not applicable; Reactivity=not applicable.

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