

MATERIAL SAFETY DATA SHEET

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

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0597A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: HERBAL ODOR COUNTERACTANT

Address: 302 North Fourth Street

Date Prepared: June 22, 1994

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. 303)

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Isopropyl alcohol (1) (not strong acid process)	67-63-0	400 ppm	400 ppm	N/A	2-6
Water	7732-18-5	N/A	N/A	N/A	---
Octyl phenoxy polyethoxy ethanol	9036-19-5	N/A	N/A	N/A	---
Herbal fragrance	mixture	N/A	N/A	N/A	---
unknown to Hillyard					

(1) Regulated by OSHA, CT, FL, IL, LA, MA, NJ, PA, RI

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 194°F Specific Gravity (H2O = 1): 25°C = 0.992 & 39°C = 0.991
 Vapor Pressure (mm Hg.): 17.9 Percent Volatile by Volume (%): average 97.2
 Vapor Density (AIR = 1): 0.7 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water : appreciable Appearance and Odor: light green liquid; herbal odor
 pH (concentrate) = 6.6 average

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 110°F (Tag Closed Cup) Flammable Limits: LEL = 1.1% UEL = N/A (mixture)
 Extinguishing Media: Water spray, carbon dioxide, dry foam
 Special Fire Fighting Procedures: Respiratory protection required for fire fighting personnel. Use water spray to cool fire-exposed surfaces and to protect personnel.
 Unusual Fire and Explosion Hazards: None known to Hillyard Industries

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Keep away from heat or open flame
 Incompatibility (Materials to Avoid): Strong oxidizing material and acids
 Hazardous Decomposition Products or Byproducts: None known to Hillyard Industries
 Hazardous Polymerization: Will not occur Conditions to Avoid: None known

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? No Skin? No Ingestion? No

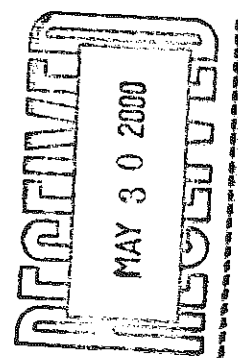
HEALTH HAZARDS (1. Acute and 2. Chronic)

1. None known to manufacturer; not an eye or skin irritant per FHSA Method 16 CFR 1500. Conc. product did induce mild irritation in all test animals. Not acutely toxic (oral) to laboratory rats at 5 g/kg per upper limit testing. Acute inhalation - 1 Hour Toxic Limit Test = Average 18.1 mg/l. = not toxic.
 2. Prolonged or repeated eye contact may produce redness and mild irritation.

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 or equal to 0.1%.



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SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: None known to Hillyard Industries

Medical Conditions Generally Aggravated by Exposure: None known to Hillyard Industries

Emergency and First Aid Procedures: Eyes: Immediately flush with plenty of water. If irritation persists call physician.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations. Since product is an aqueous solution containing less than 24% alcohol and with a pH of less than 12.5 and greater than 2, it would not be considered a federal hazardous waste per EPA regulations (40 CFR 261).

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty.

Other Precautions: Do not dispose of in storm drains or streams. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Sec. 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): Ventilate to keep air below TLV. For fogging use appropriate NIOSH or MSHA approved respirator.

Ventilation: Recommend at least 5 CFM

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

Protective Gloves: None required **Eye Protection:** Goggles suggested when working with concentrate.

Other Protective Clothing or Equipment: None required

Work / Hygienic Practices: Wash thoroughly after handling. Do not spray on food or foodstuffs.

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=** not applicable; **Corrosivity=** not applicable; **Reactivity=** not applicable.

DISCLAIMER OF WARRANTIES

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