

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 0 Flammability = 0 Reactivity = 0
 HMIS RATING: Health = 1/0 Flammability = 0 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION Ready to Use

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: ARSENAL DEGREASER
 Address: 302 North Fourth Street Date Prepared: January 14, 2004
 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)	CAS #	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dipropylene glycol methyl ether ⁽¹⁾	34590-94-8	100 ppm	100 ppm	STEL-150 ppm	<1
Water	7732-18-5	none	none	N/A	---

VOS = 0.03 lbs./gallon

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

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 206°F Specific Gravity (H₂O = 1): 25°C = 1.00 & 39°C = 1.00
 Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 98.8%
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: complete Appearance and Odor: Clear liquid, non-objectionable odor
 pH (1:20 dilution with D. I. water) = 7.6

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: None to boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A
 Extinguishing Media: Foam, dry chemical, carbon dioxide, water spray
 Special Fire Fighting Procedures: None known to manufacturer
 Unusual Fire and Explosion Hazards: None known to manufacturer

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to manufacturer
 Incompatibility (Materials to Avoid): None known to manufacturer.
 Hazardous Decomposition Products or Byproducts: None known to manufacturer.
 Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI – HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Diluted product is not a Primary Skin Irritant or eye irritant. Prolonged contact with some individuals may cause slight conjunctivae irritation of the eye with complete recovery in 72 hours. Not acutely orally toxic at 5g./kg. Prolonged inhalation of fine fog mist can cause irritation of mucous membranes.
2. None known to manufacturer.

SECTION VI – HEALTH HAZARD DATA continued

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%.

Signs and Symptoms of Exposure: Prolonged eye contact may cause irritation. Ingestion may cause irritation to mouth, throat and stomach. May cause gastric tract disorder.

Medical Conditions Generally Aggravated by Exposure: None known by manufacturer when diluted 1:20 with pH neutral water.

Emergency and First Aid Procedures: In case of contact flush eyes or skin with plenty of water for 15 minutes. If swallowed do not induce vomiting unless directed to do so by medical personnel. If inhaled move to fresh air. If discomfort persists, get medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Small spills: Flush with water and pick up with mop or wet vac. Large spills may be absorbed with floor dry material.

Waste Disposal Method: Dispose of in accordance with all federal, state and local requirements.

Precautions To Be Taken In Handling And Storing: Keep away from children. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state and local requirements.

Other Precautions: Avoid breathing of fine fog mist. Wash thoroughly after handling. Keep container closed when not in use. Do not get in eyes or on skin. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None normally required.

Ventilation: No special air handling needed with properly diluted material in normal use.

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

Protective Gloves: None required with normal use.

Eye Protection: None required with normal use.

Other Protective Clothing or Equipment: Not usually necessary

Work / Hygienic Practices: Wash thoroughly after handling

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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