

## MATERIAL SAFETY DATA SHEET

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

## SECTION I -- IDENTIFY AND MANUFACTURER'S INFORMATION (538N-74A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: CARPET DEBROWNER II  
 Address: 302 North Fourth Street Date Prepared: January 16, 2007  
 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	%
Water	7732-18-5	none	none	N.A.	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N.A.	---

VOS = 0.15 lbs./gal.

## SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 218°F Specific Gravity (H<sub>2</sub>O = 1): 25°C = 1.00 & 39°C = 1.00  
 Vapor Pressure (mm Hg.): 17.5 Percent Volatile by Volume (%): 99%  
 Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): less than 1  
 Solubility in Water: Complete Appearance and Odor: Clear water white liquid; no odor.  
 pH (concentrate): 1.0 - 2.0

## SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.) Flammable Limits: LEL = N.A. UEL = N.A.  
 Extinguishing Media: Water fog, carbon dioxide or dry chemical  
 Special Fire Fighting Procedures: None known to Hillyard.  
 Unusual Fire and Explosion Hazards: None known to Hillyard.

## SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known to Hillyard.  
 Incompatibility (Materials to Avoid): Alkali, strong oxidizing agents. Mixing with strong caustic  
 can create heat.  
 Hazardous Decomposition Products or Byproducts: Combustion can produce carbon dioxide  
 and /or carbon monoxide.  
 Hazardous Polymerization: Will not occur. Conditions to Avoid: None known to Hillyard.

## SECTION VI -- HEALTH HAZARD DATA

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

## HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Based on product testing, not a skin irritant per FHSA, CFR 16; however, it did induce mild irritation. The product was found to be a primary eye irritant per FHSA, CFR 16. Per acute oral toxicity testing: 0 mortality at 5 g/kg. Per acute inhalation (1 hr) toxicity limit test = 0 mortality at 27.2 mg/l actual concentration (nominal concentration of 33.6 mg/L). 2. None known to Hillyard.

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 I.A.R.C., NTP, NIOSH, or ACGIH as of this date, greater than or equal to 0.1%.

**SECTION VI -- HEALTH HAZARD DATA continued**

**Signs and Symptoms of Exposure:** Ingestion may cause throat irritation.

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

**Emergency and First Aid Procedures:** In case of contact immediately flush with plenty of water for 15 minutes. For eyes, get medical attention. If skin irritation persists get medical attention. If ingested, do not induce vomiting; drink one to two glasses of milk or water. Get medical attention.

**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 may be flushed with water and picked up with mop or wet vacuum.

**Waste Disposal Method:** Dispose of in accordance with state and local regulations.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use.

**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 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 droplets of less than 15 microns or dust, a NIOSH/MSHA approved respirator should be worn.

**Ventilation:** 10 air changes per hour recommended.

**Local Exhaust =** Not applicable    **Mechanical (General) =** Not applicable    **Special =** N.A.    **Other =** N.A.

**Protective Gloves:** None required with normal use of product.

**Eye Protection:** Splash goggles recommended.

**Other Protective Clothing or Equipment:** None required with normal use of product.

**Work / Hygienic 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 =** not applicable; **Reactivity =** not applicable.

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