

MATERIAL SAFETY DATA SHEET

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0701A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** MOP ON BUTYL STRIPPER**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** April 21, 2008**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	%
2-Butyl cellosolve (2-Butoxyethanol)(1)*	111-76-2	50 ppm	20 ppm	N.A.	20-25
Ethanolamine (2)	141-43-5	3 ppm	3 ppm	N.A.	10-15
Water	7732-18-5	none	none	N.A.	---

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

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

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Sec. 313, and 40 CFR Part 372: 2-Butoxyethanol.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	212°F	Specific Gravity (H₂O = 1):	25°C = 0.989	& 39°C = 0.983
Vapor Pressure (mm Hg.):	15.8	Percent Volatile by Volume (%):	99.8	
Vapor Density (AIR = 1):	1.6	Evaporation Rate (ethyl ether = 1):	slower than 1	
Solubility in Water :	complete	Appearance and Odor:	pale yellow liquid; Butyl Cellosolve odor	
pH (concentrate) =	11.8			

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** none (Tag Closed Cup) **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Carbon dioxide, dry chemical or foam (water spray to cool closed containers)**Special Fire Fighting Procedures:** Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.**Unusual Fire and Explosion Hazards:** None known to Hillyard.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** N/A**Incompatibility (Materials to Avoid):** Keep away from strong oxidizers such as permanganate or strong oxides.**Hazardous Decomposition Products or Byproducts:** As with any organic material, combustion will produce carbon dioxide and carbon monoxide.**Hazardous Polymerization:** will not occur **Conditions to Avoid:** N/A**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Corrosive to all body tissue with which it comes in contact.

2. Chronic local effects may consist of multiple areas of superficial destruction of the skin or dermatitis.

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

SECTION VI -- HEALTH HAZARD DATA cont.

Signs and Symptoms of Exposure: Butyl cellosolve is readily absorbed through the skin in toxic amounts. Inhalation of high concentrations of vapors results in respiratory and eye irritation, narcosis, headache, nausea, dizziness, hematuria and damage to liver and kidneys.

Medical Conditions Generally Aggravated by Exposure: Repeated overexposure may result in damage to the blood.

Emergency and First Aid Procedures: Inhalation: Remove person to fresh air. If breathing difficulty persists or occurs later, call physician. Skin and eye contact: Immediately flush with plenty of water for 15 minutes. Get prompt medical attention. Remove and wash all contaminated clothing before reuse. Ingestion: Immediately give large amounts of water and CALL A PHYSICIAN, hospital emergency room or poison control center.

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 (see disposal below).

Small spills: Flush with water and pick up with mop or wet vacuum.

Waste Disposal Method: Dispose of in accordance with state or local regulations. Do not dispose of in storm drains or streams; monoethanolamine is toxic to fish.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warning even after package is empty. Do not store above 120°F. Spray mist may produce respiratory irritation or damage and increase susceptibility to respiratory illness. USE WITH ADEQUATE VENTILATION. Avoid breathing vapors or spray mist. Open windows and doors, use exhaust fans or other means to insure fresh air entry during application and drying. Refer to OSHA Standard 29 CFR 1910.94 for technical guidelines on keeping air contamination below acceptable exposure limits. Do not get on skin, in eyes or on clothing.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Wear appropriate, properly fitted respirator (NIOSH or MSHA approved unless air monitoring demonstrates vapor or mist levels are below applicable limits.

Ventilation: at least 10 air changes per hour recommended

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

Protective Gloves: impervious rubber gloves **Eye Protection:** chemical safety goggles

Other Protective Clothing or Equipment: protective clothing such as uniforms, coveralls

Work / Hygienic Practices: Wash contaminated clothing before reuse (including shoes).

SECTION IX - TRANSPORTATION INFORMATION

DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(Gallon boxes) = Consumer Commodity ORM-D

Package Marking = Consumer Commodity ORM-D Label = None Hazard Class = not applicable

DOT SHIPPING DESCRIPTION ON BILL OF LADING:

(5 and 55 Gallon packages) = Compound, cleaning, liquid, (Monoethanolamine), 8, NA 1760, PG III

Package Marking = Compound, cleaning liquid (Monoethanolamine), NA 1760

Package Label = Corrosive Hazard Class = 8 Package Group = III

EPA Hazardous waste number/code: not listed

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

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