

MATERIAL SAFETY DATA SHEET

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

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

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (1012A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: TOP CLEAN

Address: 302 North Fourth Street

Date Prepared: December 13, 2002

St. Joseph, MO 64502

Prepared by: Regulatory Affairs Department

Emergency Telephone No.: CHEMTREC (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.	---
Ethoxylated Nonylphenol	9016-45-9	not est.	not est.	N.A.	---
Urea	57-13-6	not est.	not est.	N.A.	---

SECTION III - PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling point: 210°F

Specific Gravity (H₂O): 25°F = 1.01; 39°F = 1.01

Vapor Pressure (mm Hg.): 17.5

Percent Volatile by Volume (%): 95%

Vapor Density (Air = 1): 0.6

Evaporation Rate (Ethyl ether = 1): slower than 1

Solubility in Water: Complete

Appearance and odor: Clear, yellow liquid, floral odor

pH (Conc.) = 9.9

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.)

Flammable Limits: LEL = N.A. UEL = N.A.

Extinguishing Media: Water, Carbon dioxide, Dry chemical or foam.

Special Fire Fighting Procedures: Normal fire fighting procedures may be used. Cool and cautiously approach or handle fire-exposed containers.

Unusual Fire and Explosion Hazards: No special hazards known.

SECTION V - PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N.A.

Incompatibility (Materials to Avoid): None known to Hillyard.

Hazardous Decomposition Products or Byproducts: When exposed to fire, produces normal products of combustion.

Hazardous Polymerization: Will not occur **Conditions to Avoid:** None known to Hillyard.

SECTION VI - HEALTH HAZARD DATA

Routes of entry: Inhalation? no

Skin? yes

Ingestion? no

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. According to Primary Skin Irritation Test (FHSA), product concentrate is not considered to be a primary irritant; however, the sample did produce moderate irritation. Eye Irritation Test (FHSA) of sample = not an eye irritant. Product did induce slight conjunctivae irritation. When tested as specified this product was not considered to be a UN/DOT corrosive at 4 hours.

2. None known to Hillyard.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

HEALTH HAZARD DATA continued

Signs and Symptoms of Exposure: Concentrate irritating to the skin if not removed promptly. Frequent or prolonged contact with skin may cause moderate irritation or dermatitis.

Medical Conditions Generally Aggravated by Exposure: None known to manufacturer.

Emergency and First Aid Procedures: In case of contact immediately flush eyes or skin with plenty of water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing. Wash clothing before reuse.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Floors may become slippery with standing liquid. Rinse spill area with water after pick up with wet vac or mop.

Waste Disposal Method: No special method. Observe all applicable federal, state, and local requirements regarding disposal of non-hazardous materials. Waste from normal product use may be sewer to a public owned treatment works (POTW) in compliance with applicable federal, state, and local pretreatment requirements. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning.

Precautions To Be Taken In Handling And Storing: Freezing of product may rupture container. Product shelf life is best retained by storage at 45° - 100°F.

Other Precautions: 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): N.A.

Ventilation: Not required with normal method of use.

Local Exhaust = N.A. Mechanical (General) = N.A. Special = N.A. Other = N.A.

Protective Gloves: Impervious gloves recommended when handling the concentrate

Eye Protection: Chemical splash goggles where there is a potential for eye contact.

Other Protective Clothing or Equipment: Not needed.

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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