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MATERIAL SAFETY DATA SHEET	
NO. 082-04	REV. DATE APR 08

Material Safety Data Sheet

HMIS Rating: Health = 0, Flammability = 0, Reactivity = 0.

#154

SECTION I - IDENTITY AND MANUFACTURER'S INFORMATION (0599C)

Manufacturer's Name	HILLYARD INDUSTRIES	Product Name	TOP CLEAN
Address	302 North Fourth Street St. Joseph, MO 64502	Date Prepared	March 5, 1991

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. 303)

SECTION II - INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (Optional)
Water (a & b)	7732-18-5	none	none	N/A	---
Alcohol ethoxylate (nonionic surfactant) (a & b)	68439-46-3	not est.	not est.	N/A	---
B-Alanine, N-(2-carboxyethyl)-N-[3-(decyloxy)propyl]monosodium salt (Amphoteric surfactant) (a & b)	64972-19-6	not est.	not est.	N/A	---
Tetrasodium salt of EDTA (a & b)	64-02-8	not est.	not est.	N/A	---
Sodium xylene sulfonate (a & b)	1300-72-7	not est.	not est.	N/A	---

Ingredients not listed on Hazardous Substance List but regulated by (a) New Jersey; (b) Pennsylvania.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	195.38°F corr.	Specific Gravity (H ₂ O = 1)	pH (conc.) 7.05 avg. 39°C 1.003 25°C 1.005
Vapor Pressure (mm Hg.)	17.6	Percent Volatile By Volume (%)	95.71% max.
Vapor Density (Air = 1)	0.6	Evaporation Rate	(ethyl ether = 1) slower than 1
Solubility in Water	complete	Appearance and Odor	yellow liquid; floral odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Flammable Limits	LEL	UEL
none (T.C.C.)		N/A	N/A
Extinguishing Media	Special Fire Fighting Procedures		
N/A	none		

Unusual Fire and Explosion Hazards
none

SECTION V - PHYSICAL HAZARDS

Stability	Unstable <input type="checkbox"/>	Conditions to Avoid	N/A
	Stable <input checked="" type="checkbox"/>		
Incompatibility (Materials to Avoid)	Hazardous Decomposition Products Or Byproducts		
none known	none known		
Hazardous Polymerization	May Occur <input type="checkbox"/>	Conditions To Avoid	N/A
	Will Not Occur <input checked="" type="checkbox"/>		

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SECTION VI — HEALTH HAZARD DATA

3/5/91

Route(s) of Entry: Inhalation? no Skin? no Ingestion? no

Health Hazards (1. Acute and 2. Chronic)
 1. May cause eye irritation; not a skin or eye irritant per FHSA Method 16 CFR 1500; not acutely toxic (oral) to laboratory rats at 5 g/kg. per upper limit testing. Acute inhalation - 1 hr. Toxic Limit Test - Average 23.4 mg/l. = not toxic to rats.

2. Prolonged or repeated eye contact may produce redness and irritation.

Chemical Listed as Carcinogen or Potential Carcinogen: National Toxicology Program Yes No I.A.R.C. Monographs Yes No OSHA Yes No

Signs and Symptoms of Exposure
 Concentrate may be irritating to eye tissue if not removed promptly.

Medical Conditions Generally Aggravated by Exposure
 N/A

Emergency and First Aid Procedures
 In case of contact, immediately flush eyes with plenty of water; remove contact lenses and flush eyes again with water. Call a physician if irritation persists. Skin: Follow good hygiene practices and wash with soap and water. Ingestion: Drink large quantity of water; do not induce vomiting; call physician.

SECTION VII — PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled
 Pick up with mop or wet vac and wash away with water.

Waste Disposal Method
 Wash down sewer with large quantity of water.

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 temperatures.

Other Precautions
 Spills of concentrate should be picked up with wet vac and rinsed thoroughly. 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

SECTION VIII — CONTROL MEASURES

of 40 CFR Part 372.

Respiratory Protection (Specify Type)
 not required

Ventilation	Local Exhaust not required	Mechanical (General) N/A	Special N/A	Other N/A
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Protective Gloves
 none required

Other Protective Clothing Or Equipment
 none required

Work/Hygienic Practices
 Wash contaminated clothing before reuse

Eye Protection safety goggles suggested where splashing of concentrate is a concern

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