

MATERIAL SAFETY DATA SHEET

001141 ✓ #522

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (0779A)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: TOP SHAPE
 Address: 302 North Fourth Street Date Prepared: March 1, 1996
 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. 2303)
<http://www.hillyard.com>

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components (Specific Chemical Identity: Common Name(s))	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Zinc oxide (1)	1314-13-2	5 mg/M ³	5 mg/M ³	N.A.	less than 0.5
Water	7732-18-5	none	none	N.A.	---
Acrylic Copolymer	63744-68-3	not established	not established	N.A.	---
Diethylene glycol monomethyl ether(2) **	111-77-3	not established	not established	N.A.	3-6
Polyethylene emulsion	9010-77-9	not established	not established	N.A.	---

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

(2) Regulated by the following states: FL., PA., RI.

** This product contains the following chemical subject to reporting requirements of SARA Title III, Section 313: Diethylene glycol monomethyl ether.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 209°F Specific Gravity (H₂O = 1): 25°C = 1.04 & 39°C = 1.04
 Vapor Pressure (mm Hg.): 19.0 Percent Volatile by Volume (%): 81.8%
 Vapor Density (AIR = 1): 1.0 Evaporation Rate (ethyl ether = 1): slower than 1
 Solubility in Water: appreciable Appearance and Odor: White emulsion; non-objectionable odor.
 pH (concentrate): 8.9

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: None (T.C.C.) Flammable Limits: LEL = N.A. UEL = N.A.
 Extinguishing Media: Foam, Carbon Dioxide, Dry Chemical, Water Fog.
 Special Fire Fighting Procedures: Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective gear.
 Unusual Fire and Explosion Hazards: Material may spatter if temperatures exceed boiling point.
 Polymer film can burn.

SECTION V -- PHYSICAL HAZARDS

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

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SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? N/A Skin? N/A Ingestion? N/A

02, 03, 04 - 12
 01 - 10, 12
 01, 02, 03, 04, 05, 06, 07, 08, 09, 10

HEALTH HAZARD DATA (CONTINUED):

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. None known. (According to Primary Skin Irritation Test [FHSA] and Eye Irritation Test [FHSA] of similar formulation not an eye or skin irritant). FHSA oral studies on more concentrated product produced no toxicity at 5g./kg. Acute inhalation on more concentrated product - not toxic when administered at nominal concentration of 11.6 mg./l.
2. None known to polish manufacturer.

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:

None known to polish manufacturer.

Medical Conditions Generally Aggravated by Exposure:

None known to polish manufacturer.

Emergency and First Aid Procedures:

If splashed into eyes flush with water for 15 minutes. Flush skin with water. **Ingestion:** Drink large quantity of water; 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 small quantities down sewer with large amount of water. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. Large spills should be picked up with wet vac or absorbent material. Landfill or incinerate solids. Dispose of liquid per local, state and federal regulations.

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 temperature.

Other Precautions: Inhalation exposure to spray mist should be maintained at less than 10 mg/M³ per eight hours exposure (TWA limit estimated for nuisance dust).

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): None required if good ventilation is maintained.

Ventilation:

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

Protective Gloves: None required **Eye Protection:** None required

Other Protective Clothing or Equipment: None required.

Work / Hygienic Practices: Do not take internally; wash contaminated clothing and equipment before reuse.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = No; IMCO = No; IATA = No.

Proper shipping name: Liquid Floor Wax & Polish

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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