

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 (0728B)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** DISCOVERY 2000**Address:** 302 North Fourth Street**Date Prepared:** May 13, 1994

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	%
Dipropylene Glycol Methyl Ether (1)	34590-94-8	100 ppm	100 ppm	STEL = 150	2-4
Zinc Oxide	1314-13-2	5mg/m ³	5 mg/m ³	N/A	less than 0.9
Water	7732-18-5	none	none	N/A	---
Acrylic Copolymer Emulsion	unknown	not established	not established	N/A	---
Diethylene glycol monoethyl ether*	111-90-0	not established	not established	N/A	1-3
Tributoxyethyl Phosphate*	78-51-3	not established	not established	N/A	1-3

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

*This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313, and 40 CFR Part 372: Diethylene glycol monoethyl and Tributoxyethyl Phosphate

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 211°F **Specific Gravity (H₂O = 1):** 25°C = 1.03 & 39°C = 1.03
Vapor Pressure (mm Hg.): 18.7 **Percent Volatile by Volume (%):** 83.7%
Vapor Density (AIR = 1): 1.2 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** Milky white liquid, non-objectionable odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** None (T.C.C.)**Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Not applicable**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 can spatter above 100°C/212°F. Polymer film can burn.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** Onset of decomposition is 177°C/350°F**Incompatibility (Materials to Avoid):** None known**Hazardous Decomposition Products or Byproducts:** None known to Hillyard**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** None known**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Overexposure to high airborne levels or liquid splashes of Dipropylene glycol methyl ether may cause respiratory tract and mild eye irritation. Harmful if swallowed.

2. None known to Hillyard Industries.

SECTION VI -- HEALTH HAZARD DATA cont.

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: Direct eye contact with concentrate can cause slight irritation.

Medical Conditions Generally Aggravated by Exposure: Dipropylene glycol methyl ether may aggravate obstructive airway diseases (persons with impaired pulmonary functions) and liver and kidney problems. Persons with pre-existing skin disorders may be more susceptible to irritation.

Emergency and First Aid Procedures: If swallowed induce vomiting immediately. Immediately consult medical personnel. If inhaled, remove to fresh air. If discomfort persists, get medical attention. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Avoid contamination of food, water, or feed. Absorb with floor dry or similar inert material. Sweep or scrape up and put in appropriate container. Rinse spill area thoroughly with water.

Waste Disposal Method: Observe all applicable federal, state, and local regulations regarding disposal. 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. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Freezing of product may rupture container and damage product quality. Product shelf life is best retained by storage at 45-100°F temperature.

Other Precautions: Do not take internally. Inhalation exposure to spray mist should be maintained at less than 10 mg/M³ per eight hours exposure (TWA limit established for nuisance dust).

SECTION VIII -- CONTROL MEASURES:

Respiratory Protection (Specify Type): General room ventilation adequate. When airborne exposure guidelines and/or comfort levels may be exceeded, use an air-purifying respirator (equipped with organic vapor cartridge).

Ventilation:

Local Exhaust = not required Mechanical (General) = Recommended Special = N/A Other = N/A

Protective Gloves: none required for brief contact.

Eye Protection: Chemical goggles (contact may cause pain, though it is unlikely to cause injury)

Other Protective Clothing or Equipment: None required for brief contact

Work / Hygienic Practices: Wash thoroughly after handling; wash contaminated clothing before reuse. Do not take internally.

SECTION IX - TRANSPORTATION INFORMATION:

Applicable regulations: no 49 CFR; no IMCO; no IATA.

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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