

**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 (973AN-62A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** ENDEAVOUR**Address:** 302 North Fourth Street **Date Prepared:** December 14, 2005

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:**

<b>Common Name(s)</b>	<b>CAS#</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER LIMITS RECOMMENDED</b>	<b>%</b>
Dipropylene Glycol Methyl Ether (1)	34590-94-8	100 ppm	100 ppm	STEL = 150	2-4
Dibutyl Phthalate	84-74-2	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N/A	Less than 3
Zinc oxide	1314-13-2	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N/A	less than 0.7
Water	7732-18-5	none	none	N/A	---
Acrylic Copolymer Emulsion	Unknown	not established	not established	N/A	---
	to Hillyard				
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
Polyethylene emulsion	Unknown	not established	not established	N/A	---
	to Hillyard				

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

\*\* This product contains the following chemicals subject to reporting requirements of SARA Title III, Section 313: Diethylene Glycol Monoethyl Ether, Dibutyl Phthalate and Tributoxyethyl Phosphate.

**SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

<b>Boiling Point:</b> 210°F	<b>Specific Gravity (H<sub>2</sub>O = 1):</b> 25°C = 1.03	39°C = 1.03
<b>Vapor Pressure (mm Hg.):</b> 18.8	<b>Percent Volatile by Volume (%):</b> 81.7 %	
<b>Vapor Density (AIR = 1):</b> 1.3	<b>Evaporation Rate (ethyl ether = 1):</b> slower than 1	
<b>Solubility in Water:</b> complete	<b>Appearance and Odor:</b> Milky white liquid, non objectionable odor	

**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****Flash point:** None (Tag Closed Cup) **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 77°C/350°F.**Incompatibility (Materials to Avoid):** None known to Hillyard Industries**Hazardous Decomposition Products or Byproducts:** None known to Hillyard Industries**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known to Hillyard Industries**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? yes Skin? yes Ingestion? yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Not a skin or eye irritant per Federal Hazardous Substance Act. Prolonged exposure may cause moderate skin irritation in sensitive individuals. Prolonged eye contact may cause conjunctivae irritation in sensitive individuals. Overexposure to high airborne levels or liquid splashes of Dipropylene glycol methyl ether may cause eye, nose, throat and skin irritation. Harmful if swallowed. 2. None known to Hillyard Industries.

**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%.

#### SECTION VI – HEALTH HAZARD DATA cont.

**Signs and Symptoms of Exposure:** Prolonged eye contact with concentrate can cause slight irritation but eyes are expected to clear up in 48 hours. Prolonged skin contact with concentrate can cause moderate skin irritation but is expected to recover in eight days.

**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:** Pick up with mop or wet vac and wash away with water. Absorb large spills with oil-dri or similar inert absorbent. Collect material for proper disposal.

**Waste Disposal Method:** Wash small quantities down sewer with large amount of water. Contains ammonia which may be toxic to aquatic life. 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 or 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/m<sup>3</sup> per eight hours exposure (TWA limit established for nuisance dust). 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. Keep container closed when not in use.

#### 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:** Good ventilation for public areas is 10 air changes per hour.

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

**Protective Gloves:** Use solvent resistant rubber or neoprene gloves for prolonged or repeated contact.

**Eye Protection:** None needed for normal use.

**Other Protective Clothing or Equipment:** Protective clothing such as uniforms or coveralls.

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

#### SECTION IX – TRANSPORTATION INFORMATION

##### DOT SHIPPING DESCRIPTION ON BILL OF LADING:

**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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