

MATERIAL SAFETY DATA SHEET

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

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (1089A)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: NAVIGATOR

Address: 302 North Fourth Street

Date Prepared: January 27, 2009 (Version 2)

St. Joseph, MO 64501

Prepared by: Regulatory Affairs Department

Emergency Telephone : (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	%
Ethylene glycol *	107-21-1	50 ppm	50 ppm	N/A	1.0-1.5
Zinc Oxide ⁽¹⁾	1314-13-2	5 mg/M ³	5 mg/M ³	N/A	0.4-0.7
Water	7732-18-5	none	none	N/A	---
Acrylic copolymer emulsion	unknown to Hillyard **	not established	not established	N/A	---
Diethylene glycol monoethyl ether*	111-90-0	not established	not established	N/A	2-6
Tributoxy ethyl phosphate*	78-51-3	not established	not established	N/A	---
Alkene Polymd.	84133-50-6	not established	not established	N/A	---

(1) Regulated by the following 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 Ethylene glycol, Diethylene glycol monoethyl ether, Tributoxy ethyl phosphate.

**EPA/TSCA Chemical Inventory -- all ingredients listed.

VOC (Concentrate) = 6.4%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: >200°F	Specific Gravity (H ₂ O = 1): 25°C = 1.04 & 39°C = 1.04
Vapor Pressure (mm Hg.): 17	Percent Volatile by Volume (%): 74.5
Vapor Density (AIR = 1): 1.4	Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: Dispersible	Appearance and Odor: milky emulsion, non-objectionable odor
pH: 8.4	

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: none (Tag Closed Cup)

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

Extinguishing Media: N/A

Special Fire Fighting Procedures: none

Unusual Fire and Explosion Hazards: Material may spatter if temperature exceeds boiling point. Polymer film can burn.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): none known.

Hazardous Decomposition Products or Byproducts: Thermal decomposition may yield acrylic monomers (avoid temperatures above 177°C/350°F). Thermal decomposition is dependent on time and temperature.

Hazardous Polymerization: Will not occur Conditions to Avoid: N/A

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Ingestion? yes

SECTION VI -- HEALTH HAZARD DATA cont.

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Per Federal Hazardous Substance Act product is not a Primary Skin Irritant nor a Primary Eye Irritant. The product was not acutely toxic at 5 gm/kg. 2. None known to Hillyard for the mixture.

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: Prolonged contact with concentrate may cause mild eye and nose irritant. Swallowing, breathing fine fog mist may cause irritation.

Medical Conditions Generally Aggravated by Exposure: Diethylene Glycol Monoethyl Ether repeated ingestion or repeated overexposure to inhalation may aggravate obstructive airway diseases (persons with impaired pulmonary functions) and liver and kidney problems.

Emergency and First Aid Procedures: 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 15 minutes; if eye irritation persists get medical attention.

*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. Ventilate area of spill or leak. Transfer liquids and drinking material to separate suitable containers for recovery or disposal. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

Waste Disposal Method: Spills should be picked up with wet vac or absorbent material. Dispose of liquid per federal, state and local regulations. Waste from normal product use may be sewerer to a public-owned treatment works (POTW) in compliance with applicable federal, state and local requirements.

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: Inhalation exposure to vapors should be maintained at less than 10 mg/M³ per eight hours exposure (TWA limit est. for nuisance dust.)

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): When airborne exposure guidelines and/or comfort levels may be exceeded, use an approved air-purifying respirator.

Ventilation:

Local Exhaust = not required **Mechanical (General)** = suggested **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: Use good personal hygiene procedures.

Work / Hygienic Practices: Do not take internally; wash contaminated clothing 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 characteristics:

Ignitability = not applicable; **Corrosivity** = not applicable; **Reactivity** = not applicable

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