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
Product Name: NAVIGATOR
(1089A)
Manufacturer's Name: HILLIARD INDUSTRIES
Address: 302 North Fourth Street
St. Joseph, MO 64501

Emergency Telephone: (800)-424-9300 (Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals.)
Date Prepared: October 26, 2007
Prepared by: Regulatory Affairs Department
Other information calls: (816) 233-1321 (Ext. 8285)
http://www.hillyard.com

SECTION II -- INGREDIENTS/IDENTITY INFORMATION

Components
(Specific Chemical Identity: OSHA PEL ACGIH OTHER LIMITS
Common Name(s) CAS# ppm TLV RECOMMENDED %
Ethylene glycol * 107-21-1 50 50 ppm N/A 1.0-1.5
Zinc Oxide 1314-13-2 5 mg/M³ 5 mg/M³ N/A 0.4-0.7
Water 7732-18-5 none none N/A ---
Acrylic copolymer emulsion unknown to not established not established N/A ---
Hillyard **
Diethylene glycol monoethyl ether 111-90-0 not established not established N/A 2-6
Triethylene glycol monoethyl ether* 78-51-3 not established not established N/A ---
Alkene Polymers 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 (H₂O = 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 Hilyard 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 sewered 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 spray mist 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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