

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 (546N-29C)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: EP-22

Address: 302 North Fourth Street

Date Prepared: December 16, 2009

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)

SECTION II – INGREDIENTS/IDENTITY INFORMATION**Components**

(Specific Chemical Identity:

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Water	7732-18-5	none	none	N/A	---
Acrylic copolymer emulsion*	unknown to Hillyard	not established	not established	N/A	---
Tributoxyethyl Phosphate **	78-51-3	not established	not established	N/A	1-3
Diethylene glycol monoethyl ether **	111-90-0	not established	not established	N/A	less than 5
Polyethylene Emulsion*	Unknown to Hillyard	not established	not established	N/A	---

*EPA TSCA Chemical Inventory -- all ingredients listed.

**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 ether and Tributoxyethyl Phosphate

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: corr. >200°F **Specific Gravity (H₂O = 1):** 25°C = 1.027 & 39°C = 1.020
Vapor Pressure (mm Hg.): 17.34 **Percent Volatile by Volume (%):** 77-78
Vapor Density (AIR = 1): 1.10 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: dispersible **Appearance and Odor:** Milky white liquid typical floor finish odor
pH (concentrate) = 7.2-8.2

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 to Hillyard Industries

Hazardous Decomposition Products or Byproducts: None known to Hillyard Industries

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

SECTION VI – HEALTH HAZARD DATA

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

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Not an eye or skin irritant per FHSA Method 16 CFR 1500. Not acutely toxic (oral) to laboratory rats at 5 g/kg per upper limit testing. Acute inhalation - 1 Hour Toxic Limit test - not toxic at actual concentration of at least 225 mg/l. Prolonged inhalation of vapor may cause slight irritation of nose, throat, and lungs. Ingesting may cause irritation of the digestive tract. 2. None known to Hillyard.

SECTION VI – HEALTH HAZARD DATA continued

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: Swallowing, breathing or absorbing may cause nausea.

Medical Conditions Generally Aggravated by Exposure: None known to Hillyard.

Emergency and First Aid Procedures: **If swallowed,** rinse mouth and drink 1 or 2 glasses of water. Immediately consult medical personnel. Never give anything by mouth to unconscious person. **On Skin:** Rinse area with soap and warm water, if irritation persists contact physician. **If inhaled:** move to fresh air. If discomfort persists, get medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with federal, state and local regulations. Ventilate area of spill or leak. 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 sewer 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: Close container after each use. Do not take internally. Keep out of reach of children.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not needed when following label directions.

Ventilation: Follow good engineering practices for public areas.

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

Protective Gloves: None required for brief contact.

Eye Protection: Normally not needed; contact may cause slight pain even though it is unlikely to cause injury.

Other Protective Clothing or Equipment: None required for brief contact.

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 number / code: not listed

Hazardous waste characteristics:

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

DISCLAIMER OF WARRANTIES

NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR OF ANY NATURE ARE MADE WITH RESPECT TO THE PRODUCT(S) OR INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET.

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

THE BUYER OR USER ASSUMES ALL RISKS ASSOCIATED WITH THE USE, MISUSE OR DISPOSAL OF THIS PRODUCT. THE BUYER OR USER IS RESPONSIBLE TO COMPLY WITH ALL FEDERAL, STATE OR LOCAL REGULATIONS CONCERNING THE USE, MISUSE OR DISPOSAL OF THESE PRODUCTS.