

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 2 Flammability = 3 Reactivity = 0
HMIS RATING: Health = 2 Flammability = 3 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION

(11SAM1028A)

Manufacturer's Name: HILLYARD INDUSTRIES
Address: 302 North Fourth Street
St. Joseph, MO 64501

Product Name: Hillyard Foaming Hand Sanitizer Affinity
Date Prepared: December 1, 2011 (New)
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

Table with 6 columns: (Specific Chemical Identity: Common Name(s)), CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %. Row 1: Denatured Ethyl Alcohol, 64-17-5, 1000 ppm, 1000 ppm, N/A, 62.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 178°F Specific Gravity (H2O = 1): 25°C = 0.8863 Density = 7.38 lb/gl
Vapor Pressure (mm Hg.): 30.84 Percent Volatile by Volume (%): 96 - 98 %
Vapor Density (AIR = 1): 1.32 Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete Appearance and odor: Clear, slightly yellow liquid with pleasant odor
pH (concentrate) = 6.0 - 7.0

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: 72°F Flammable Limits: LEL = N/D UEL = N/D
Extinguishing Media: Carbon dioxide, Alcohol-type foam, Dry Chemical
Special Fire Fighting Procedures: NIOSH approved respirator should be worn by firefighters. Use water spray to cool equipment and to disperse vapors. Alcohol flames may be difficult to see because they are virtually colorless.
Unusual Fire and Explosion Hazards: Vapors from this product may travel or move by air currents to an ignition source and flash back.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: Excessive heat
Incompatibility (Materials to Avoid): Heat, sparks and open flames. Oxidizing materials can cause vigorous reaction.
Hazardous Decomposition Products or Byproducts: None known to manufacturer.
Hazardous Polymerization: Will not occur.

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation Skin Ingestion X
HEALTH HAZARDS (1. Acute and 2. Chronic)

- 1. May cause eye irritation. Can be harmful if swallowed. Ingestion may cause diarrhea, distention, and/or vomiting.
2. None known to Hillyard.

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, or regulated by OSHA

Signs and Symptoms of Exposure: If in eyes: Burning, watering, redness. If swallowed: Possible gastrointestinal irritation or disturbance. If vapors are inhaled: Possible giddiness or loss of consciousness.

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

SECTION VI -- HEALTH HAZARD DATA continued:

Emergency and First Aid Procedures: **In case of eye contact:** Immediately flush eyes with plenty of cool water for at least 15 minutes. If irritation persists, get medical attention. **If swallowed:** If patient is conscious and alert, dilute by drinking large quantities of water. Allow vomiting to occur and then get medical attention. Never give anything by mouth to an unconscious person.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: **Small Spills:** (less than 8 oz.) May be washed down a drain with lots of water or cleaned up and disposed of into a sanitary sewer system. **Large Spills:** (more than 8 oz.) Should be contained and collected by absorption or vacuuming then disposed of properly.

Waste Disposal Method: This product is considered a RCRA Hazardous Waste (due to flammability) as identified in Federal Regulations 40 CFR 261. Dispose of product by using in accordance with label directions or in compliance with local, state and federal laws and regulations (contact local or state environmental agency for specific rules).

Precautions To Be Taken In Handling And Storing: Do not contaminate water, food or feed. Do not reuse empty containers. Keep containers clean and closed.

Other Precautions: Keep out of reach of children. Store at ambient temperatures. Avoid all ignition sources.

SECTION VIII -- CONTROL MEASURES

Respiratory Protection (Specify Type): Not applicable.

Engineering Controls: Mechanical Ventilation (General): Normally sufficient. **Ventilation:** Not required for normal use.

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

Protective Gloves: N/A **Eye Protection:** Avoid eye contact

Other Protective Clothing or Equipment: Not required.

Work / Hygienic Practices: Do not get into eyes. May be harmful if swallowed. Protect food and drink from contamination by product.

SECTION IX - TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = 172.101 **IMCO =** no; **IATA =** no

Proper shipping name: Packages > 1000M: Ethanol Solution,
Packages < 1000ml or less: ORM-D

UN No.: UN1170 if > 1000M **Limited Qty.:** not applicable **Hazard Class:** 3 **PG:** II

Labels required: Flammable **DOT Exception:** 1000ml or less: ORM-D

EPA Hazardous waste number / code: not listed

Hazardous waste characteristics: not listed

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

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