

MATERIAL SAFETY DATA SHEET**NFPA RATING:** Health = 1 Flammability = 2 Reactivity = 0**HMIS RATING:** Health = 1 Flammability = 2 Reactivity = 0**SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (0723A)****Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** GLASS AND PLASTIC CLEANER**Address:** 302 North Fourth Street**Date Prepared:** July 19, 1994

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:**

Common Name(s)	CAS#	OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Isopropyl alcohol (1)	67-63-0	400 ppm	400 ppm	500 (STEL)	2-6
Water	7732-18-5	none	none	N/A	---

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

VOS = 987 gm./l.; VOC = 800 gm./l. less water; or VOS = 8.23 lbs./gal.

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** 201.8°F**Specific Gravity (H₂O = 1):** 25°C = 0.99 & 39°C = 0.99**Vapor Pressure (mm Hg.):** 17.8**Percent Volatile by Volume (%):** 99.8**Vapor Density (AIR = 1):** 0.6**Evaporation Rate (ethyl ether = 1):** slower than 1**Solubility in Water:** complete**Appearance and Odor:** clear, blue liquid; isopropyl alcohol odor**pH (concentrate) =** 7 - 8**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****Flash point:** 116°F (Tag Closed Cup) minimum **Flammable Limits:** LEL = 2.1 UEL = N/A**Extinguishing Media:** Alcohol foam, dry chemical, carbon dioxide**Special Fire Fighting Procedures:** Water spray may be ineffective, but may be used to cool closed containers.**Unusual Fire and Explosion Hazards:** None known to manufacturer**SECTION V – PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** Heat, sparks and open flame**Incompatibility (Materials to Avoid):** Strong oxidizing materials**Hazardous Decomposition Products or Byproducts:** As with any organic material, combustion will produce carbon dioxide and probably carbon monoxide.**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known to manufacturer**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? No Ingestion? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. Prolonged eye contact may produce irritation. Harmful if swallowed.

2. Prolonged breathing of high concentrations of fine fog mist can cause respiratory irritation.

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: Direct eye contact with concentrate can cause mild irritation. If ingested, causes drunkenness (drowsiness, headache and uncoordination) and vomiting.

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

Emergency and First Aid Procedures: In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. If eye irritation persists get medical attention. If swallowed, CALL A PHYSICIAN, hospital emergency room or poison control center immediately; induce vomiting. Inhalation-If affected by high concentrations of vapor or spray mist, remove victim to fresh air.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Eliminate all sources of ignition. Absorb large spills with floor dry material. Small spills: Flush with water and pick up with mop.

Waste Disposal Method: Dispose of in accordance with state and local regulations. Since the product is an aqueous solution containing less than 24% alcohol and with a pH of less than 12.5 and greater than 2, it would not be considered a federal hazardous waste per EPA regulations (40 CFR 261).

Precautions To Be Taken In Handling And Storing: Keep container closed when not in use. Since empty packages retain product residue, follow label warnings even after package is empty. Waste from normal use may be sewered to a public-owned treatment works in compliance with applicable federal, state, and local requirements. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning.

Other Precautions: 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. Do not take internally. Avoid excess contact with skin.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Ventilate to keep air below TLV on Isopropyl alcohol. A NIOSH approved respirator for organic vapor should be worn if needed to keep level below TLV.

Ventilation: Recommended at least 5 CFM

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

Protective Gloves: N/A **Eye Protection:** N/A

Other Protective Clothing or Equipment: N/A

Work / Hygienic Practices: Wash thoroughly after handling

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: CFR = No IMCO = Yes IATA = Yes.

Proper shipping name for air and foreign water: Flammable liquid, N.O.S., (Isopropyl alcohol), 3, UN1993, III

Proper shipping name for highway: Cleaning compound

UN No.: Not applicable for highway **Limited Qty.:** Not applicable **Hazard class:** Not applicable for highway

Labels required: Not required for highway **DOT Exception:** Not applicable

EPA Hazardous waste characteristics: Ignitability=Applicable; Corrosivity=Not applicable; Reactivity=Not applicable.

DISCLAIMER OF WARRANTIES

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