

**MATERIAL SAFETY DATA SHEET**

**NFPA RATING:** Health = 1 Flammability = 0 Reactivity = 0

**HMIS RATING:** Health = 1 Flammability = 0 Physical Hazard = 0

**SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION** \*(566N-93B)

**Manufacturer's Name:** HILLYARD INDUSTRIES

**Product Name:** HAND DISH WASH LIQUID

**Address:** 302 North Fourth Street

**Date Prepared:** August 27, 2012 (version 4)

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	%
Water	7732-18-5	None	none	N/A	---
*Alkyl(C10-16) benzensulfonic acid	68584-22-5	N/E	N/E	N/A	10-15
*Ethanol	64-17-5	N/E	N/E	N/A	1-2

N/A = Not applicable N/E = Not established

**\*SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**

*Boiling Point:	211°F	Specific Gravity (H <sub>2</sub> O = 1): 25°C =	1.025	Density =	8.54 lb/gl
*Vapor Pressure (mm Hg.):	17.7	*Percent Volatile by Weight (%):	79 - 81%		
*Vapor Density (AIR = 1):	0.63	Evaporation Rate (ethyl ether = 1):	slower than 1		
*Solubility in Water:	Complete	*Appearance and Odor:	Clear, viscous, light amber liquid		
pH (concentrate) =	7 – 9				

**\*SECTION IV – FIRE AND EXPLOSION HAZARD DATA**

\*Flash point: None to 200°F (T.C.C.) Flammable Limits: LEL = N/A UEL = N/A

Extinguishing Media: Water, carbon dioxide, dry chemical or foam

Special Fire Fighting Procedures: N/A

Unusual Fire and Explosion Hazards: N/A

**SECTION V – PHYSICAL HAZARDS**

Stability: Stable Conditions to Avoid: N/A

Incompatibility (Materials to Avoid): Strong oxidizing agents

Hazardous Decomposition Products or Byproducts: Sulfur dioxide and hydrogen sulfide

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

**SECTION VI – HEALTH HAZARD DATA**

Routes of entry: Inhalation? N/A Skin? N/A Ingestion? N/A

**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. May cause eye irritation

2. None known

**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:** N/A**Medical Conditions Generally Aggravated by Exposure:** None known to manufacturer**Emergency and First Aid Procedures: Eyes:** In case of contact with concentrate immediately flush eyes with plenty of water for 15 minutes. CALL PHYSICIAN IMMEDIATELY. **Skin:** Flush with plenty of water for 15 minutes.**Ingested:** DO NOT induce vomiting. Give large quantities of water. GET MEDICAL ATTENTION. Never give liquids to an unconscious person.**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.**Waste Disposal Method:** Wash down sewer with large quantity of water.**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 temperature.**Other Precautions:** Spills of concentrate should be picked up with wet vac and rinsed thoroughly. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR Part 372.**SECTION VIII – CONTROL MEASURES****Respiratory Protection (Specify Type):** Not required**Ventilation:****Local Exhaust** = Not required      **Mechanical (General)** = N/A      **Special** = N/A      **Other** = N/A**Protective Gloves:** Latex gloves suggested      **Eye Protection:** Glasses where splashing of concentrate is a concern**Other Protective Clothing or Equipment:** None required**Work / Hygienic Practices:** Rinse cleaner off skin with water**SECTION IX – TRANSPORTATION INFORMATION****Applicable regulations:** 49 CFR = no; IMCO = no; IATA = no**Proper shipping name:** Cleaning compound**UN No.:** not required      **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.**

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