

**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** (538N-67A)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** HEAVY DUTY C.V. WASH**Address:** 302 North Fourth Street**Date Prepared:** January 16, 2007

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	%
Sodium Metasilicate (1)	6834-92-0	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	N/A	1-5
Water	7732-18-5	none	none	N/A	---
Tetrasodium Salt of EDTA	64-02-8	not established	not established	N/A	---
Linear Primary Alcohol Ethoxylate	68439-46-3	not established	not established	N/A	---
Cocoamido Propyl Betaine	61789-40-0	not established	not established	N/A	---

(1) Exposure may be evaluated as ceiling for Sodium hydroxide per OSHA: PEL = 2 mg/m<sup>3</sup> or TLV = 2 mg/m<sup>3</sup>**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**

**Boiling Point:** 208°F **Specific Gravity (H<sub>2</sub>O = 1):** 25°C = 1.04 & 39°C = 1.04  
**Vapor Pressure (mm Hg.):** 17.5 **Percent Volatile by Volume (%):** 92 %  
**Vapor Density (AIR = 1):** 0.6 **Evaporation Rate (ethyl ether = 1):** slower than 1  
**Solubility in Water :** complete **Appearance and Odor:** Clear, red liquid; non-objectionable odor  
**pH (concentrate) =** 12.8

**SECTION IV -- FIRE AND EXPLOSION HAZARD DATA****Flash point:** None to boiling (Tag Closed Cup) **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** N/A**Special Fire Fighting Procedures:** None known to manufacturer**Unusual Fire and Explosion Hazards:** None known to manufacturer**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable**Conditions to Avoid:** None known to manufacturer**Incompatibility (Materials to Avoid):** Strong oxidizing agents**Hazardous Decomposition Products or Byproducts:** None known to manufacturer**Hazardous Polymerization:** Will not occur**Conditions to Avoid:** N/A**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? no Skin? no Ingestion? no**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. According to Eye Irritation Test (Federal Hazardous Substance Act) concentrated product is an eye irritant. According to Primary Skin Irritation Test (Federal Hazardous Substance Act) concentrated product is not a primary skin irritant. However, prolonged exposure to the concentrated product may cause severe irritation; test subjects recovered in 10 days. Inhalation of fine fog mist can cause respiratory irritation.

2. None known to Hillyard Industries.

**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 contact with concentrate can cause eye irritation; prolonged or repeated skin contact may cause mild irritation.

**Medical Conditions Generally Aggravated by Exposure:** May aggravate pre-existing skin disorders (i.e. dermatitis, etc.) or respiratory ailments.

**Emergency and First Aid Procedures:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. For eyes GET MEDICAL ATTENTION. If skin irritation persists GET MEDICAL ATTENTION. Wash contaminated clothing before reuse. Inhalation-Remove victim to fresh air; if respiratory tract remains irritated call a physician. If swallowed - drink large quantity of water; do not induce vomiting, call physician.

## SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken In Case Material Is Released Or Spilled:** Small spill: Flush with water and pick up with mop or wet vac. Large spills may be absorbed with floor dry material and put in appropriate container. Use appropriate protective equipment.

**Waste Disposal Method:** Disposal is regulated by the Resource Conservation Recovery Act: pH of Concentrate may be greater than 12.5; thus it is corrosive per EPA Hazardous Waste Classification. Disposal of regulated quantities should be neutralized at a permitted facility in accordance with all federal, state and local requirements.

**Precautions To Be Taken In Handling And Storing:** Keep container closed when not in use. Container disposal: Triple rinse (or equivalent) then offer clean, dry container for recycling or reconditioning. Waste from normal use may be sewerer to a public-owned treatment works in compliance with applicable federal, state and local requirements.

**Other Precautions:** Avoid breathing fine fog spray mist. Do not get into eyes. Avoid excess contact with skin. Do not take internally. This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning & Community Right-to-Know Act of 1986 and 40 CFR Part 372.

## SECTION VIII -- CONTROL MEASURES:

**Respiratory Protection (Specify Type):** Not usually necessary. If spraying in a fine fog mist increase ventilation.

**Ventilation:** Ventilate to keep air concentrate below 2 mg/m<sup>3</sup>.

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

**Protective Gloves:** Not normally necessary when used according to label directions.

**Eye Protection:** Chemical splash goggles

**Other Protective Clothing or Equipment:** Non-absorbent protective clothing.

**Work / Hygienic Practices:** Wash thoroughly after handling. Upon contact remove contaminated clothing; wash before reuse. Keep out of reach of children.

## SECTION IX - TRANSPORTATION INFORMATION:

**Applicable regulations:** DOT = No; IMCO = No; IATA = No.

**Proper shipping name:** Cleaning compound

**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 =** applicable; **Reactivity =** not applicable

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