

MATERIAL SAFETY DATA SHEET

EPA Reg. No. 47371-147-1658

EPA Est. No. 1658-MO-1

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

HMIS RATING: Health = 2 Flammability = 1 Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION (513N-90C)

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: SANITIZER

Address: 302 North Fourth Street

Date Prepared: October 1, 2010 (version 2)

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	N/A	N/A	---
Didecyl dimethyl ammonium chloride	7173-51-5	N/E	N/A	N/A	2.31
n-Alkyl (C ₁₄ 50%, C ₁₂ 40%, C ₁₆ 10%) dimethyl benzyl ammonium chloride	8001-54-5	N/E	N/A	N/A	1.54
Ethanol	64-17-5	1000ppm	1000ppm	N/A	< 1
VOC (Concentrate) = 0.96%; VOC (Minimum Dilution) = 0.004% N/E = Not Established N/A = Not Applicable					

*SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	118°F	Specific Gravity (H ₂ O = 1): 25°C =	1.00	*Density =	8.34 lbs/gal.
Vapor Pressure (mm Hg.):	17.6	Percent Volatile by Weight (%):	93-96%		
Vapor Density (AIR = 1):	0.6	Evaporation Rate (ethyl ether = 1):	slower than 1		
Solubility in Water:	complete	Appearance and Odor:	clear, golden yellow liquid; non-objectionable odor		
pH of concentrate:	6.0 – 8.0				

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash point: >200°F (Tag Closed Cup) Flammable Limits: LEL = Not known UEL = Not known

Extinguishing Media: Alcohol foam, carbon dioxide, dry chemical, water

Special Fire Fighting Procedures: Must wear NIOSH/MSHA approved self-contained breathing apparatus and protective clothing. Cool fire-exposed containers with water spray.

Unusual Fire and Explosion Hazards: Products of combustion are toxic. Heated solvent vapors can travel to an ignition source and flash back.

SECTION V – PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition Products or Byproducts: Thermal decomposition may produce toxic vapors/fumes of Hydrogen chloride, amines, and other organic materials, and oxides of carbon and nitrogen

Hazardous Polymerization: Will not occur Conditions to Avoid: None known to Hillyard

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Eye? Yes Ingestion? no

HEALTH HAZARDS (1. Acute and 2. Chronic)

1 Product produces severe eye and skin burns in the concentrate. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and rubber gloves. Wash thoroughly with soap and water after handling. Harmful if swallowed. Remove contaminated clothing and wash clothing before reuse. This product has an Oral LD₅₀ (rat) = 1850mg/kg.; and a dermal LD₅₀ (rabbit) = 4430mg/kg. The skin irritation (rabbit) = severe irritant (primary irritation); eye irritation (rabbit) = severe irritant. When diluted essentially not an eye irritant and not expected to be skin irritant when similar formula was diluted 1:64 with 3.8 % actives and pH of 13. 2. None known to Hillyard.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No

I.A.R.C. Monographs = No

OSHA = No

Signs and Symptoms of Exposure: Based upon available animal toxicity information, it is anticipated that the concentrated material will be corrosive to the skin and eyes upon direct or prolonged contact. Solvent vapors or mists of products can produce irritation of mucous membranes. Ingestion can produce immediate burning pain in the mouth, throat, and abdomen; severe swelling of the larynx; skeletal muscle paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. May be fatal. Exposure to ethyl alcohol concentrations of over 1,000 ppm may cause headaches, irritation of the eyes, nose and throat, and, if continued for long period of time drowsiness and lassitude, loss of appetite and inability to concentrate.

***SECTION VI – HEALTH HAZARD DATA continued**

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

Emergency and First Aid Procedures: **Eyes:** Flush with large amounts of running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eye and lids with water. Get immediate medical attention. If physician is not available, flush for additional 15 minutes and then transport victim to medical care. **Skin:** Wash with large amounts of running water, and soap if available, for 15 minutes; remove contaminated clothing and shoes. Get immediate medical attention. Wash clothing and decontaminated shoes before reuse. ***Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. **Inhalation:** Remove from area to fresh air. If not breathing, clear airway and start artificial respiration. If victim is having trouble breathing, give supplemental oxygen, if available. Get immediate medical attention. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Supplemental oxygen and other measures to support breathing may be needed to combat circulatory shock. Persistent convulsions may be controlled by the cautious intravenous injection of a short acting barbiturate drug.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Danger! Corrosive material. Floors may become slippery. Wear appropriate protective gear and NIOSH/MSHA approved respirator where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Wash thoroughly with soap and water after handling. Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers of recovery or disposal. Keep spill out of sewers and open bodies of water.

Waste Disposal Method: Dispose of in compliance with all federal, state and local laws and regulations. Incineration is the preferred method.

Precautions To Be Taken In Handling And Storing: Keep away from children.

Other Precautions: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. 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

Ventilation: In processes where mists or vapors must be generated, proper ventilation must be provided in accordance with good ventilation practices. **Respiratory Protection (Specify Type):** Where mist or vapors are generated by the process or if recommended TWA/TWA for ethyl alcohol is exceeded, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls. **Protective Gloves:** Rubber or neoprene, when needed, to prevent skin contact. **Eye Protection:** Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use conditions. **Other Protective Clothing or Equipment:** Eyewash, safety shower, protective clothing (long sleeves, coveralls or other, as appropriate), when needed to prevent skin contact with concentrate. **Work / Hygienic Practices:** Wash hands thoroughly after handling.

Precautions for storage and handling: Store at temperatures below 140°F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

SECTION IX – TRANSPORTATION INFORMATION

Applicable regulations: 49 CFR = 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 **Exception:** Not applicable

EPA Hazardous waste number/code: Not listed

Hazardous waste characteristics: **Ignitability** = Not applicable; **Corrosivity** = Not applicable; **Reactivity** = Not applicable

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