

MATERIAL SAFETY DATA SHEET
EPA Reg. No. 6836-277-1658 **EPA Est. No. 1658-MO-1**

NFPA RATING: Health = 3 Flammability = 1 Reactivity = 0
HMIS RATING: Health = 3 Flammability = 1 Reactivity = 0

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION

(1209A)

Manufacturer's Name: HILLYARD INDUSTRIES**Product Name:** HILLYARD CLEANING COMPANION
SANITIZER 64**Address:** 302 North Fourth Street
St. Joseph, MO 64501**Date Prepared:** May 7, 2008
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	%
Octyl Decyl Dimethyl Ammonium Chloride	Unknown to Hillyard	not established	not established	N/A	.390
Dioctyl Dimethyl Ammonium Chloride	Unknown to Hillyard	not established	not established	N/A	.156
Didecyl Dimethyl Ammonium Chloride	68424-95-3	not established	not established	N/A	.234
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%)	68424-85-1	not established	not established	N/A	.520
Dimethyl Benzyl Ammonium Chloride					
Ethanol	64-17-5	1000 ppm	1000 ppm	not established	.400
Water	7732-18-5	not established	not established	not established	---

VOC (Concentrate) = 0.33%; VOC (diluted 1:64) = 0.005%

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point:	201°F	Specific Gravity (H₂O = 1):	0.99 at 25°C
Vapor Pressure (mm Hg.):	17.6	Percent Volatile by Volume (%):	98%
Vapor Density (AIR = 1):	0.6	Evaporation Rate (ethyl ether = 1):	Slower than ethyl ether
Solubility in Water:	complete	Appearance and Odor:	Clear liquid, light blue color
pH (concentrate)	6.0 to 8.0		Non-objectionable odor

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA**Flash point:** > 200°F **Flammable Limits:** LEL = N/A UEL = N/A**Extinguishing Media:** Water, carbon dioxide, dry chemical or alcohol foam**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. Use alcohol foam, carbon dioxide, dry chemical, and water for extinguishing media.**Unusual Fire and Explosion Hazards:** Products of combustion are toxic.**SECTION V -- PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** None Known**Incompatibility (Materials to Avoid):** Strong oxidizing or reducing agents.**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.**SECTION VI -- HEALTH HAZARD DATA****Routes of entry:** Inhalation? Yes Skin? Yes Ingestion? No Eye? Yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**

1. No information available for this specific material. Concentration for a similar product shows it is a primary skin irritant. A similar formulation produced severe skin irritation that did not clear by day 14, post dose. Similar formulation produced severe eye irritation with and without washing that did not clear by day 7, post dose. Oral toxicity at about 6750 mg/kg, dermal toxicity at about 8900 mg/kg. 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 continued

Signs and Symptoms of Exposure: No information found for this material. Based upon the available animal toxicity information for related materials, it is anticipated that direct contact will produce moderate to severe skin irritation and severe eye irritation with possible chemical burns and irreversible damage.

Medical Conditions Generally Aggravated by Exposure: Skin problems such as industrial dermatitis.

Emergency and First Aid Procedures: Eyes: flush eyes 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 decontaminate shoes before reuse. Ingestion: if swallowed, immediately give 3-4 glasses of milk (if unavailable, give water). DO NOT induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. Have physician determine if patient's condition allows for induction of vomiting or evacuation of the stomach. Do not give anything by mouth to a convulsing or 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.

SECTION VII -- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Caution! Floors may become slippery. Wear appropriate protective gear and respiratory protection where mists or vapors of unknown concentrations may be generated (self-contained breathing apparatus preferred). Dike and contain spill with inert material (sand, earth, etc.) and transfer the liquid and solid separately to containers for 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. Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of it in a sanitary landfill, or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke

Precautions To Be Taken In Handling And Storing: Maximum storage temperature: 140°F. Keep containers closed until used. Do not contaminate drinking water, food or feed by storage or disposal.

Other Precautions: None

SECTION VIII -- CONTROL MEASURES:

Respiratory Protection (Specify Type): In areas where fine fog mist or vapors may be generated, proper ventilation must be provided in accordance with good ventilation practices. In areas where fine fog mist or vapors may be generated, a NIOSH/MSHA jointly approved respirator is advised in the absence of proper environmental controls.

Ventilation:

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

Protective Gloves: Rubber or neoprene **Eye Protection:** Wear chemical splash goggles where there is a potential for eye contact. Use safety glasses with side shields under normal use condition.

Other Protective Clothing or Equipment: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), to prevent skin contact.

Work / Hygienic Practices: Wash thoroughly after handling. Maximum storage temperature: 140°F. Keep container 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 **DOT 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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