

MATERIAL SAFETY DATA SHEET

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

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION

(1118A)

Manufacturer's Name: HILLYARD INDUSTRIES **Product Name:** HILLYARD LEMON DISINFECTANT
Address: 302 North Fourth Street **Date Prepared:** September 8, 2006
 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	%
Didecyl dimethyl ammonium chloride	7173-51-5	not established	N/A	N/A	0.94
n-Alkyl (C ₁₄ 50%; C ₁₂ 40%; C ₁₆ 10%)	8001-54-5	not established	N/A	N/A	0.62
dimethyl benzyl ammonium chloride					
Deionized water	7732-18-5	none	N/A	N/A	---

This product contains no reportable quantities of toxic chemicals subject to reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right to Know Act of 1986 and 40 CFR Part 372.

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 212°F **Specific Gravity (H₂O = 1):** 25°C = 1.00 & 39°C = 1.00
Vapor Pressure (mm Hg.): 17.5 **Percent Volatile by Volume (%):** 98
Vapor Density (AIR = 1): less than 1 **Evaporation Rate (ethyl ether = 1):** slower than 1
Solubility in Water: complete **Appearance and Odor:** clear liquid; lemon odor
pH (concentrate) = 10 – 11.5

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
Unusual Fire and Explosion Hazards: None

SECTION V – PHYSICAL HAZARDS

Stability: Stable **Conditions to Avoid:** N/A
Incompatibility (Materials to Avoid): Acids
Hazardous Decomposition Products or Byproducts: Carbon derivatives
Hazardous Polymerization: Will not occur **Conditions to Avoid:** N/A

SECTION VI – HEALTH HAZARD DATA

Routes of entry: Inhalation? No Skin? No Ingestion? Yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing.
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: Should not cause respiratory irritation. Causes eye irritation. Causes skin irritation. Harmful if swallowed.

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

Emergency and First Aid Procedures: Inhalation: Move to fresh air. Eyes: Flush with plenty of water for at least 15 minutes. Call a physician immediately. Skin: Flush with plenty of water. Remove contaminated clothing. Call a physician. Wash clothing before reuse. Ingestion: Promptly drink a large quantity of water. Call a physician immediately. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Contain spill. Do not contaminate food, feed or water.

Waste Disposal Method: Open dumping is prohibited. Dispose of in accordance with local, state and federal regulations. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency.

Precautions To Be Taken In Handling And Storing: Product must be kept under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Other Precautions: Product is cationic; mixing with soap or anionics will decrease its activity. Triple rinse containers before disposal. Do not reuse empty containers.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): None required

Ventilation:

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

Protective Gloves: Rubber or neoprene with concentrate **Eye Protection:** Chemical splash goggles

Other Protective Clothing or Equipment: Face Shield

Work / Hygienic Practices: Wash hands thoroughly after handling.

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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