					#127
MATERINFPA RATING: Health =3HMIS RATING: Health =3Flammability =Flammability =		$\mathbf{Y} \mathbf{DATAS}$ $activity = 0$ $activity = 0$	HEET		
SECTION I – IDENTITY AND MANUFACT Manufacturer's Name: HILLYARD INDUSTI Address: 302 North Fourth Stree St. Joseph, MO 64501	RIES <b>F</b> et <b>D</b>	Product Nan	<b>he: H-101</b> <b>d:</b> February 8	s, 1995 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 II Components (Specific Chemical Identity: Common Name(s) Octyl Decyl Dimethyl Ammonium Chloride	NFORMATI CAS#	ON OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED	%
Dioctyl Dimethyl Ammonium Chloride Dioctyl Dimethyl Ammonium Chloride or Di-N- Alkyl ( $C_8/C_{10}$ -50%; $C_{10}$ -30%; $C_8/C_8$ -20%) dimethyl ammonium chloride	68424-95-3	not established	not established	N/A	4.5
Alkyl ( $C_{14}$ , 50%; $C_{12}$ , 40%; $C_{16}$ , 10%) Dimethyl Benzyl Ammonium Chloride Ethyl alcohol	68424-85-1 64-17-5	not established 1000 ppm	not established 1000 ppm	N/A N/A	3.0 1-2
<ul> <li>SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS         <ul> <li>Boiling Point: corr. 200°F Specific Gravity (H<sub>2</sub>O = 1): 25°C = 0.996 &amp; 39°C = 0.989</li> <li>Vapor Pressure (mm Hg.): 17.6 Percent Volatile by Volume (%): average 91.36</li> <li>Vapor Density (AIR = 1): 0.6 Evaporation Rate (ethyl ether = 1): less than 1</li> <li>Solubility in Water: appreciable Appearance and Odor: Clear, colorless liquid; non-objectionable odor pH of concentrate: 5.0 -7.0</li> </ul> </li> <li>SECTION IV – FIRE AND EXPLOSION HAZARD DATA         <ul> <li>Flash point: none to boiling (Tag Closed Cup) Flammable Limits: LEL = N/A UEL = N/A</li> <li>Extinguishing Media: Water, dry chemical, CO<sub>2</sub>, foam</li> <li>Special Fire Fighting Procedures: Wear MSHA/NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water spray.</li> <li>Unusual Fire and Explosion Hazards: Products of combustion are toxic.</li> </ul> </li> </ul>					
SECTION V – PHYSICAL HAZARDS         Stability:       Stable       Conditions to Avoid:       Do not mix with anionic cleaners.         Incompatibility (Materials to Avoid):       Oxidizing materials         Hazardous Decomposition Products or Byproducts:       Carbon dioxide, carbon monoxide, ammonia, nitrous oxides, hydrogen chloride         Hazardous Polymerization:       Will not occur       Conditions to Avoid:       None known					
<ul> <li>SECTION VI – HEALTH HAZARD DATA</li> <li>Routes of entry: Inhalation? Yes Skin? Yes Ingestion? Yes</li> <li>HEALTH HAZARDS (1. Acute and 2. Chronic)</li> <li>1. Concentrate is corrosive to all body tissue with which it comes in contact.</li> <li>2. Prolonged and repeated exposure to the skin may produce dermatitis. Inhalation of fine fog mist can cause irritation of the mucous membranes; use large droplet sprayer and adequate ventilation when spraying or proper respiratory protection.</li> <li>Chemical listed as Carcinogen or Potential Carcinogen:</li> <li>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%.</li> </ul>					

#127

## page 2 of #127 - H-101

# SECTION VI – HEALTH HAZARD DATA continued

**Signs and Symptoms of Exposure:** Direct eye contact can cause severe damage; repeated skin contact can cause severe skin irritation; concentrate is corrosive to eyes and skin. Ingestion of concentrate: immediate burning pain in mouth, throat, abdomen and severe swelling of larynx, skeletal muscle paralysis and affecting the ability to breathe.

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

**Emergency and First Aid Procedures:** In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse. If swallowed, drink promptly a large quantity of egg whites, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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

**Steps To Be Taken In Case Material Is Released Or Spilled:** Dike and contain spill with inert material (sand, earth, etc.) and transfer liquid and solid separately to containers for recovery or disposal. Small spills: Flush with water and pick up with wet vac or mop when on inside flooring.

**Waste Disposal Method:** Pesticide wastes are acutely hazardous. Do not contaminate water, food or feed by storage or disposal. If these wastes cannot be disposed of by use according to label instructions contact your state pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Precautions To Be Taken In Handling And Storing:** Do not store on side. Avoid creasing or impacting of side walls of package. **Other Precautions:** Container disposal: 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 and Community Right to Know Act of 1986 and 40 CFR Part 372.

# SECTION VIII – CONTROL MEASURES

 Respiratory Protection (Specify Type): Not required

 Ventilation: 10 air changes per hour recommended

 Local Exhaust = N/A Mechanical (General) = Recommended

 Protective Gloves: Rubber or neoprene with concentrate

 Eye Protection: Chemical goggles or face shield with concentrate

 Other Protective Clothing or Equipment: None

 Work / Hygienic Practices: Wash thoroughly after handling

## SECTION IX - TRANSPORTATION INFORMATION

 Applicable regulations: DOT = Yes; IMCO = Yes; IATA = Yes

 Proper shipping name (Gallon Boxes) for U.S. Highway: Consumer Commodity ORM-D

 Proper shipping name (5 & 55 Gallon Drums) for U.S. Highway: Compounds, cleaning liquid, (Dialkyl dimethyl ammonium chloride), 8, NA 1760, PG III

 UN No: UN1760
 Limited Qty.: not applicable

 Hazard Class: 8

 Label required: Not required on gallon boxes by highway; 5 & 55 gallon drum = Corrosive Label

 DOT Exception: Not applicable

 EPA 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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