

MATERIAL SAFETY DATA SHEET

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

SECTION I -- IDENTITY AND MANUFACTURER'S INFORMATION (507N-45B)

Manufacturer's Name: HILLYARD INDUSTRIES Product Name: Q.T.
Address: 302 North Fourth Street Date Prepared: March 28, 2002
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

Table with 6 columns: Common Name(s), CAS#, OSHA PEL, ACGIH TLV, OTHER LIMITS RECOMMENDED, %. Rows include Didecyl dimethyl ammonium chloride, n-Alkyl (C14 50%, C12 40%, C16 10%) dimethyl benzyl ammonium chloride, Octyl dimethyl amine oxide, Ethylenediamine tetraacetic acid, Sodium hydroxide, and Deionized water.

SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS

Boiling Point: 203°F Specific Gravity (H2O = 1): 25°C = 1.00 & 39°C = 1.00
Vapor Pressure (mm Hg.): 17.7 Percent Volatile by Volume (%): 88.8
Vapor Density (AIR = 1): 0.7 Evaporation Rate (ethyl ether = 1): slower than 1
Solubility in Water: complete Appearance and Odor: clear, red liquid; herbal odor
pH of concentrate: 6.5 -7.5

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

Flash point: >200°F (Tag Closed Cup) Flammable Limits: LEL = Not applicable UEL = Not applicable
Extinguishing Media: Foam, 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.

SECTION V -- PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: N/A
Incompatibility (Materials to Avoid): Strong oxidizing and 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 by Hillyard.

SECTION VI -- HEALTH HAZARD DATA

Routes of entry: Inhalation? yes Skin? yes Eye? Yes Ingestion? yes
HEALTH HAZARDS (1. Acute and 2. Chronic)
1. Causes irreversible eye damage and skin burns. Harmful if swallowed. Do not get in eyes, on skin or on clothing. When handling product, protect eyes by wearing goggles or face shield and protect skin by wearing rubber gloves. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended. LD50 Rat = 1270 mg/kg; dermal LD50 (rabbit) 3150 mg./kg.; eye irritation (rabbit) = Severe irritant; skin irritation (rabbit) = severe irritant on similar alkaline formulation containing 7% active quat. 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 on information available for similar products, it is anticipated that direct contact will produce severe eye and skin irritation and/or burns and possible irreversible damage. Solvent vapors or mist of product can produce irritation of the 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. Exposure to ethyl alcohol concentrations of over 1,000 ppm may cause headache, irritation of the eyes, nose and throat, and if long continued, drowsiness and lassitude, loss of appetite and inability to concentrate.

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SECTION VI -- HEALTH HAZARD DATA continued:

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

Emergency and First Aid Procedures: If in eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If on skin or clothing: take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. If swallowed: 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. Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. **NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. **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 mist 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.

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 may be generated, proper ventilation must be provided in accordance with good ventilation practices.

Respiratory Protection (Specify Type): In processes where mists or vapors may be generated, 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 with concentrate.

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: Eye wash; safety shower; protective clothing (long sleeves, coveralls or other, as appropriate), when needed to prevent skin contact with concentrate.

Storage and Handling: Store at temperatures below 140°F. Keep container closed until used. Do not contaminate drinking water, food or feed by storage or disposal. **Work / Hygienic Practices:** Wash hands 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: Disinfectants, Corrosive Liquid, N.O.S. (Didecyl dimethyl ammonium chloride, N-alkyl dimethyl benzyl ammonium chloride), 8, UN 1903, PG III

UN No.: UN1903 **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/number code: Not listed

Hazardous waste characteristics:

Ignitability = Not applicable; **Corrosivity =** Not applicable; **Reactivity =** Not applicable

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