

H 82406

#824

MATERIAL SAFETY DATA SHEET
EPA Reg. No. 6836-77-1658 EPA Est. No. 1658-MO-1

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

SECTION I - IDENTIFY AND MANUFACTURER'S INFORMATION (1023B)**Manufacturer's Name:** HILLYARD INDUSTRIES**Product Name:** Q.T. Plus**Address:** 362 North Fourth Street**Date Prepared:** June 11, 2008

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	%
N,N Dialkyl (C ₈₋₁₆)-N,N-dimethylammonium Chloride Didecyl dimethyl ammonium chloride	68424-95-3	not established	N/A	N/A	6.51
N-Alkyl (C12-16) dimethyl ethyl ammonium chloride	68424-85-1	not established	N/A	N/A	4.34
Alcohols, C9-11, Ethoxylated	68439-46-3	not established	N/A	N/A	< 5.0
Tetrasodium Edylated ethoxylated tetraacetate	64-02-8	not established	N/A	N/A	---
Ethanol	64-17-5	1000 ppm	1000 ppm	N/A	1-4
Deionized water	7732-18-5	none	N/A	N/A	---

VOC (Concentrate) = 1.36% VOC (Minimum Dilution) = 0.01%

SECTION III - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: 200 °C
Vapor Pressure (mm Hg.): 17.8
Vapor Density (AIR = 1): 0.6
Solubility in Water: complete
pH of concentrate: 12-13

Specific Gravity (H₂O = 1): 25°C = 1.01 & 39°C = 1.01
Percent Volatile by Volume (%): 80.4%
Evaporation Rate (ethyl ether = 1): slower than 1
Appearance and Odor: clear, yellow liquid; lemon odor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA**Flash point:** >200 °F (Tag Closed Cup) **Flammable Limits:** LEL = Not applicable UEL = Not applicable**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. Use fire extinguishers with water spray.**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):** None known**Hazardous Decomposition Products or Byproducts:** Thermal decomposition may produce toxic vapors/fumes of Hydrogen chloride, aldehydes, 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 exposure:** Inhalation? yes Skin? yes Eye? Yes Ingestion? yes**HEALTH EFFECTS:** Acute and 2. Chronic

1 Corrosive, causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. May be absorbed through the skin. Wash thoroughly with soap and water after handling. Product produces severe eye irritation. This product has an Oral LD50 (rat) = 1650 mg/kg.; and a dermal LD50 (rabbit) = 1870 mg/kg. (primary irritation index of 8.0; eye irritation (rabbit) = severe irritant (primary irritation index of 8.0; eye irritation (rabbit) = severe irritant (primary irritation index of 8.0). The product is a DOT Corrosive upon skin testing. 2. None known to Hillyard.

Chemical Safety Data: 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 this 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 throat; and/or paralysis affecting the ability to breathe; circulatory shock; and/or convulsions. May be fatal. Exposure to concentrations of over 1,000 ppm may cause headaches, irritation of the eyes, nose and throat, drowsiness, loss 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:** 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. **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 equipment and NIOSH/MSHA approved respirator 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 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, etc. followed 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 which 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 TW/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/Equipment: Eye wash; 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. Use proper storage and disposal.

SECTION IX - TRANSPORTATION INFORMATION

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

Proper shipping name (see 49 CFR 171.15) for U.S. Highway: Consumer Commodity ORM-D

Proper shipping name (see 49 CFR 171.15) for U.S. Highway: Disinfectants, Corrosive Liquid, N.O.S. (N,N-Dialkyl-N,N-dimethyl ammonium chloride, N,N-dimethyl benzyl ammonium chloride), 8, UN 1903, PG III

UN No.: UN1903 **Limited Qty.:** not applicable **Hazard Class:** 8

Label required: Corrosive (see 49 CFR 172.101) Non-bulk by highway; 5 & 55 gallon drum = Corrosive Label

DOT Exceptions: none

EPA Hazardous waste: Not applicable

Hazardous waste: Ignitability = Not applicable; Corrosivity = Yes; Reactivity = Not applicable

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