

**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 (0703A)**

Manufacturer's Name: HILLYARD INDUSTRIES

Product Name: Q.T.

Address: 302 North Fourth Street  
St. Joseph, MO 64501

Date Prepared: July 8, 1994

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.2303)

<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	4.61
n-Alkyl (C <sub>14</sub> 50%, C <sub>12</sub> 40%, C <sub>16</sub> 10%) dimethyl benzyl ammonium chloride	8001-54-5	not established	N/A	N/A	3.07
Octyl dimethyl amine oxide	2605-78-9	not established	N/A	N/A	---
Ethylenediaminetetraacetic acid, disodium salt	139-33-3	not established	N/A	N/A	---
Deionized water	7732-18-5	none	N/A	N/A	---

**SECTION III -- PHYSICAL / CHEMICAL CHARACTERISTICS**

Boiling Point: 203°F

Specific Gravity (H<sub>2</sub>O = 1): 25°C = 1.00 & 39°C = 1.00

Vapor Pressure (mm Hg.): 17.7

Percent Volatile by Volume (%): 89.4

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: 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: none known to Hillyard

Hazardous Polymerization: will not occur Conditions to Avoid: N/A

**SECTION VI -- HEALTH HAZARD DATA**

Routes of entry: Inhalation? yes Skin? yes Ingestion? yes

HEALTH HAZARDS (1. Acute and 2. Chronic)

1. Causes eye damage; causes severe skin irritation per EPA test. Harmful or fatal if swallowed.

2. Inhalation of fine fog mist can cause irritation of mucous membranes. Fine fog mist application is not recommended.

Chemical listed as Carcinogen or Potential Carcinogen:

National Toxicology Program = No I.A.R.C. Monographs = No OSHA = No

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**SECTION VI -- HEALTH HAZARD DATA cont.**

**Signs and Symptoms of Exposure:** Direct eye contact can cause severe damage; skin contact can cause severe irritation; ingestion of concentrate may cause burning pain in mouth, throat and abdomen.

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

**Emergency and First Aid Procedures:** Eyes: Immediately flush with water for 15 minutes; call physician immediately.  
Skin: Immediately flush with plenty of water for 15 minutes. Ingestion: Drink promptly a large quantity of milk, egg whites, gelatin solution or water. Avoid alcohol. Get medical attention.\*

\*Possible 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:** Avoid contamination of food, water or feed.

**Waste Disposal Method:** 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, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Precautions To Be Taken In Handling And Storing:** Keep away from children.

**Other Precautions:** Triple rinse empty containers thoroughly with water before disposal. Remove contaminated clothing and wash before reuse. 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**

**Respiratory Protection (Specify Type):** none normally required. If exposed to fine mist droplets of less than 15 microns, a NIOSH/MSHA approved respirator should be worn.

**Ventilation:**

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

**Protective Gloves:** rubber gloves

**Eye Protection:** goggles or face shield

**Other Protective Clothing or Equipment:** none.

**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.

**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.**

The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate.

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