

MATERIAL SAFETY DATA SHEET

NFPA RATING: Health = 1, Flammability = 2, Reactivity = 0

HMIS RATING: Health = 1, Flammability = 2, Reactivity = 0

SECTION I – IDENTITY AND MANUFACTURER'S INFORMATION**Distributor:** HILLYARD INDUSTRIES**Product Name:** QT-TB**Address:** 302 North Fourth Street**Date Prepared:** December 31, 1998

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: CAS#	OSHA	ACGIH	OTHER LIMITS	%
Common Name(s):	PEL	TLV	RECOMMENDED	
Diethylene Glycol Monobutyl Ether*(1) 112-34-5	not est.	not est.	N.A.	5-10
EDTA Tetrasodium Salt 64-02-8	not est.	not est.	N.A.	----
Water 7732-18-5	none	none	N.A.	----

(1) Regulated by the following states: OH and PA.

* This product contains the following chemical subject to reporting requirements of SARA Title III, Section 313 and 40 CFR Part 372: Diethylene Glycol Monobutyl Ether.

SECTION III – PHYSICAL / CHEMICAL CHARACTERISTICS**Boiling Point:** Approximately 212°F**Specific Gravity (H₂O = 1):** 1.01 ± 0.01**Vapor Pressure (mm Hg.):** Not est.**Percent Volatile by Volume (%):** greater than 95%**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 fragrance**pH =** 11.7**SECTION IV – FIRE AND EXPLOSION HAZARD DATA****Flash point:** greater than 180°F (T.C.C.) **Flammable Limits:** LEL = N.E. UEL = N.E.**Extinguishing Media:** Water, CO₂, foam or media suitable for surrounding fire.**Special Fire Fighting Procedures:** Standard fire fighting procedures may be followed, including full protective gear, NIOSH approved self-contained breathing apparatus.**Unusual Fire and Explosion Hazards:** None known to manufacturer.**SECTION V – PHYSICAL HAZARDS****Stability:** Stable **Conditions to Avoid:** None known to manufacturer.**Incompatibility (Materials to Avoid):** Do not mix with other chemicals.**Hazardous Decomposition Products or Byproducts:** Thermal decomposition or burning may produce toxic vapors or gases.**Hazardous Polymerization:** Will not occur **Conditions to Avoid:** None known to manufacturer.**SECTION VI – HEALTH HAZARD DATA****Routes of entry:** Inhalation? no Skin? yes Ingestion? yes**HEALTH HAZARDS (1. Acute and 2. Chronic)**1. **Acute:** Harmful if swallowed. Eye and skin irritant. 2. **Chronic:** None known to manufacturer.**Chemical listed as Carcinogen or Potential Carcinogen:**

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

Signs and Symptoms of Exposure: Irritation or burning sensation.**Medical Conditions Generally Aggravated by Exposure:** May aggravate skin disorders or respiratory ailments.

HEALTH HAZARD DATA (CONTINUED)

Emergency and First Aid Procedures: **Eye Contact:** Flush immediately with water for 15 minutes. Get medical attention. **Skin Contact:** Flush with water for 15 minutes. Remove and wash contaminated clothing. **Ingestion:** Rinse mouth with water. Then drink 1-2 glasses of water. Never give anything by mouth to an unconscious person. Get immediate medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Released Or Spilled: Wear appropriate protective equipment. If possible, contain spill and collect in an approved container. Rinse affected area thoroughly with water. Keep product out of sewers or waterways. Hold for disposal.

Waste Disposal Method: Dispose of in accordance with applicable local, state, and federal regulations. If possible, triple rinse container and recycle.

Precautions To Be Taken In Handling And Storing: Avoid contact with skin or eyes. Avoid breathing vapor, spray or mist. Store in original container, in cool dry place with adequate ventilation. Keep out of reach of children. Keep container tightly closed when not in use.

Other Precautions: Use only according to label directions. If unsure about safe use, contact your supervisor immediately.

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Specify Type): Not expected to be necessary under normal conditions of use. Where exposure cannot be adequately controlled by general or local ventilation, use appropriate respiratory protection to prevent over exposure. An approved dust/mist respirator would be recommended.

Ventilation: Local Exhaust = As necessary Mechanical (General) = Adequate Special = N.A. Other = N.A.

Protective Gloves: Water impervious (Latex, Neoprene)

Eye Protection: Chemical Resistant Goggles or Face Shield.

Other Protective Clothing or Equipment: Not Required.

Work / Hygienic Practices: Follow OSHA mandated procedures. Never eat or smoke while working with chemicals. Good housekeeping practices apply. Wash 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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