

# SAFETY DATA SHEET

# 1. Identification

Product identifier	QT-TB
Other means of identification	
SDS number	538N-57A
Product code	HIL01011
Product registration number	1839-83-1658
Recommended use	Disinfectant/Cleaner
<b>Recommended restrictions</b>	For Labeled Use Only
Manufacturer/Importer/Supplier/	Distributor information
Manufacturer	
Company name	HILLYARD INDUSTRIES
Address	302 North Fourth St.
	St. Joseph, MO 64501

Contact person	Regulatory Affairs
Telephone number	(816) 233-1321 (Ext. 8285)
Fax	(816) 383-8485
E-mail	regulatoryaffairs@hillyard.com
Emergency telephone #	(800) 424-9300
	(Only in the event of chemical emergency involving a spill, leak, fire, exposure or accident involving chemicals)

# 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Serious eye damage/eye irritation	Category 2B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Combustible liquid. Causes eye irritation.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot handling. Wear protective gloves/eye protection	surfaces. No smoking. Wash thoroughly after on/face protection.
Response	, , , , , , , , , , , , , , , , , , ,	eral minutes. Remove contact lenses, if present and ersists: Get medical advice/attention. In case of fire:
Storage	Store in a well-ventilated place. Keep cool.	
Disposal		l with disposal of this product (original concentration npliance with applicable federal, state and local
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Butoxydiglycol		112-34-5	5 - < 10
Tetrasodium EDTA		64-02-8	1 - < 3
Alkyl C12-14 Dimethylethylben Ammonium Chloride	zyl	85409-23-0	< 0.2
Alkyl dimethyl benzyl ammoniu chloride (C12-18)	m	68391-01-5	< 0.2
Other components below repor	table levels		90 - 100
. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms develop or persist.		

IIIIaiation	move to resh an. Can a physician in symptoms develop of persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Combustible liquid.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	<ul> <li>Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight.</li> <li>Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).</li> <li>DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.</li> <li>PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than 120°F.</li> <li>Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.</li> </ul>

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

Components	Туре	Value	Form
Butoxydiglycol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Biological limit values	No biological exposure limits noted for	or the ingredient(s).	
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.		
ndividual protection measure	s, such as personal protective equipm	ent	
Eye/face protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear appropriate chemical resistant	gloves.	
Other	None normally required. If unable to a impervious clothing.	avoid prolonged or repeated o	contact with skin, wear
Respiratory protection	If engineering controls do not mainta limits (where applicable) or to an acc been established), an approved resp ventilation.	eptable level (in countries wh	ere exposure limits have not
Thermal hazards	None known.		
General hygiene considerations	When using do not smoke. Always of after handling the material and before clothing and protective equipment to	e eating, drinking, and/or smo	

### 9. Physical and chemical properties

Appearance	Clear, colorless liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Lemon odor

Material name: QT-TB

Odor threshold	Not available
рН	12 - 13 Concentrate
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling	210 °F (98.89 °C)
range	
Flash point	> 180.0 °F (> 82.2 °C) Tag Closed Cup
Evaporation rate	< 1 (ethyl ether = 1)
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.36 mm Hg
Vapor density	1.03 Air = 1
Relative density	1.02 at 77°F
Solubility(ies)	
Solubility (water)	100 % Complete
Partition coefficient	Not available
(n-octanol/water)	
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.49 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Percent volatile	96.5 - 97.5 %
voc	8.01 % EPA VOC
	0.01 CARB VOC

## 10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials	Acids. Strong oxidizing agents. Oxidizing agents.
Hazardous decomposition	No hazardous decomposition products are known.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes eye irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.
Information on toxicological eff	fects
Acute toxicity	Not known. Toxicity data is not available for this mixture. Data below are estimates based on

summation methods.

Product		Species	Test Results		
QT-TB	•				
	<u>Acute</u> Dermal				
	LD50	Rabbit	33750 mg/kg		
	Inhalation				
	LC50	Mouse	5882 mg/l, 2 Hours		
			5871 mg/l, 4 Hours		
		Rat	12060 mg/l, 0.5 Hours		
			7059 mg/l, 4 Hours		
	Oral				
	LD50	Guinea pig	24840 mg/kg		
		Mouse	27270 mg/kg		
		Rabbit	27500 mg/kg		
		Rat	48440 mg/kg		
Compon		Species	Test Results		
	glycol (CAS 112-34-5)				
	Acute				
	Dermal LD50	Rabbit	2700 mg/kg		
	Oral	Kabbit	2700 mg/kg		
	LD50	Rat	4500 mg/kg		
	rosion/irritation				
	eye damage/eye	Causes eye irritation.	Prolonged skin contact may cause temporary irritation.		
irritation					
Respirat	tory or skin sensitizatio	n			
Res	piratory sensitization	Not a respiratory sensitizer.			
Skin sensitization		This product is not expected to cause skin sensitization.			
Germ ce	Il mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinog	genicity	Not classifiable as to carcinogenicity to hu	mans.		
IARC	C Monographs. Overall	Evaluation of Carcinogenicity			
OSH US.	Not listed. National Toxicology Pr	ed Substances (29 CFR 1910.1001-1053) ogram (NTP) Report on Carcinogens			
	Not listed. Ictive toxicity	This product is not expected to cause repr	oductive or developmental effects		
-	target organ toxicity -	This product is not expected to cause reproductive or developmental effects. Not classified.			
Specific	target organ toxicity - d exposure	Not classified.			
	on hazard	Prolonged inhalation may be harmful.			
Aspiratio					
-	effects	Prolonged inhalation may be harmful.			
Chronic	effects ological informatio				
Chronic 12. Ecc	ological information	<b>n</b> The product is not classified as environme	ntally hazardous. However, this does not exclude the nave a harmful or damaging effect on the environment.		
Chronic 12. Ecc	ological information	<b>n</b> The product is not classified as environme			
Chronic 12. Ecc Ecotoxic	ological information city duct	The product is not classified as environme possibility that large or frequent spills can b	nave a harmful or damaging effect on the environment.		
Chronic 12. Ecc Ecotoxic Proc QT-1	ological information city duct	The product is not classified as environme possibility that large or frequent spills can b	nave a harmful or damaging effect on the environment.		

Product		Species	Test Results
Fish	LC50	Fish	315.3841 mg/l, 96 hours estimated
Components		Species	Test Results
Butoxydiglycol (CAS 112-34-	-5)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Tetrasodium EDTA (CAS 64-	-02-8)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
rsistence and degradability	No data is av	ailable on the degradability of this product	
oaccumulative potential			
Partition coefficient n-octa Butoxydiglycol	nol / water (log	<b>Kow)</b> 0.56	
obility in soil	No data avai	lable.	
her adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		
3. Disposal consideratio	ons		
sposal instructions	PESTICIDE DISPOSAL: 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. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.		
cal disposal regulations	Dispose in accordance with all applicable regulations.		
zardous waste code		Corrosive material [pH <=2 or =>12.5, or ode should be assigned in discussion betw pany.	
aste from residues / unused oducts	pesticide, spi disposed of b	DISPOSAL – Pesticide wastes are acutely ray mixture, or rinsate is a violation of Fede by use according to label instructions, conta cy, or the Hazardous Waste representative	eral Law. If these wastes cannot be act your State Pesticide or Environment
ontaminated packaging	container pro container on seconds. Sta over onto its times. Offer	B DISPOSAL – Nonrefillable container. Do mptly after emptying. Triple rinse as follow its side and roll it back and forth, ensuring and the container on its end and tip it back other end and tip it back and forth several for recycling or reconditioning, if available. fill. Since emptied containers may retain pl er is emptied.	vs: Fill container ¼ full with water. Tip at least one complete revolution for 30 and forth several times. Turn the conta times. Repeat this procedure two more If not available, puncture and dispose

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and the IBC Code

### 15. Regulatory information

**US** federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List or Exempt.

**Toxic Substances Control Act (TSCA)** 

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency relea	se notification	
Not regulated.	ad Substances (20 CEP 1010 1001 1052)	
Not listed.	ed Substances (29 CFR 1910.1001-1053)	
	authorization Act of 1000 (CADA)	
-	eauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazar Not listed.	uous substance	
	Vee	
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Serious eye damage or eye irritation	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Sectior	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drinking Water Act.	
FIFRA Information	<ul> <li>FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 18 subject to certain labeling requirements under Federal pesticide law. These from the classification criteria and hazard information required for safety day for workplace labels of non-pesticide products. The hazard information recellabel is reproduced here.</li> <li>PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMICAUTION</li> <li>KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. A or clothing. Wash thoroughly with soap and water after handling and befor chewing gum or using tobacco.</li> <li>FIRST AID: Have the product container or label with you when calling a performance of the product. If in eyes: Hold eye open and rinse slowly a 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes eye. Call a poison control center or doctor for treatment advice. If swallows center or doctor immediately for treatment advice. Have person sip a glass swallow. Do not induce vomiting unless told to do so by the poison control give anything by mouth to an unconscious person. If inhaled: Move person not breathing, call 911 or an ambulance then give artificial respiration, preference.</li> </ul>	se requirements differ ata sheets (SDS), and quired on the pesticide ESTIC ANIMALS Avoid contact with eyes, re eating, drinking, bison control center or and gently with water for a, then continue rinsing ed: Call a poison control s of water if able to center or doctor. Do not in to fresh air. If person is ferably by
	NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the	
US state regulations		
is not known to contain a	Water and Toxic Enforcement Act of 1986 (Proposition 65): This material ny chemicals currently listed as carcinogens or reproductive toxins. For ww.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by the gove	

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	04-04-2015
Revision date	08-12-2021
Version #	02

Material name: QT-TB

HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
Disclaimer	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. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user is responsible to comply with all federal, state or local regulations concerning the use, misuse or disposal of these products.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.