# The Cleaning Resource

# **SAFETY DATA SHEET**

1. Identification

Product identifier QT-TB

Other means of identification

SDS number 538N-57A Product code HIL01011 1839-83-1658 Product registration

number

Disinfectant/Cleaner Recommended use Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer

HILLYARD INDUSTRIES Company name Address 302 North Fourth St. St. Joseph, MO 64501 Contact person Regulatory Affairs (816) 233-1321 (Ext. 8285) Telephone number

(816) 383-8485

regulatoryaffairs@hillyard.com F-mail

(800) 424-9300 Emergency telephone #

(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 Category 2B Serious eye damage/eye irritation

Environmental hazards Not classified. OSHA defined hazards Not classified.

Label elements

None. Hazard symbol Warning Signal word

Hazard statement Combustible liquid. Causes eye irritation.

Precautionary statement

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Wash thoroughly after Prevention

handling. Wear protective gloves/eye protection/face protection.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Response

easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire:

Use appropriate media to extinguish.

Store in a well-ventilated place. Keep cool. Storage

Buyer assumes all risk and liability associated with disposal of this product (original concentration Disposal

or dilution) in violation of applicable law in compliance with applicable federal, state and local

Hazard(s) not otherwise None known.

classified (HNOC)

Supplemental information None.

#### 3. Composition/information on ingredients

Mixtures

Material name: QT-TB SDS US 1/8 HIL01011 Version #: 01 Issue date: 04-04-2015

Chemical name	Common name and synonyms	CAS number	%
2-(2-butoxyethoxy)ethanol		112-34-5	5 - < 10
Tetrasodium ethylenediamine tetraacetate		64-02-8	1 - < 3
Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride		85409-23-0	< 0.2
Alkyl dimethyl benzyl ammonium chloride (C12-18)		68391-01-5	< 0.2
Other components below reportable leve	ls		90 - 100

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or 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. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth Ingestion

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

Indication of immediate medical attention and special

treatment needed

General information

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

The product is combustible, and heating may generate vapors which may form explosive vapor/air

## 5. Fire-fighting measures

Suitable 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. Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

Specific methods

equipment/instructions

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

Use standard firefighting procedures and consider the hazards of other involved materials.

mixtures. During fire, gases hazardous to health may be formed.

Combustible liquid.

General fire hazards

## 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.

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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. Cover with plastic sheet to prevent spreading. 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. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

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, DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. including any incompatibilities PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than

Keep away from heat, sparks and open flame. Store away from incompatible materials (see

Section 10 of the SDS).

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.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
2-(2-butoxyethoxy)ethanol	TWA	10 ppm	Inhalable fraction and
(CAS 112-34-5)			vapor.

Biological limit values Appropriate engineering No biological exposure limits noted for the ingredient(s).

controls

Good general ventilation (typically 10 air changes per hour) 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

### Individual protection measures, such as personal protective equipment

Eye/face protection Use safety eyewear with splash guards or side shields, chemical goggles, or face shields.

Skin protection

Hand protection

None normally required. If unable to avoid prolonged or repeated contact with skin, wear

Wear protective gloves.

Respiratory protection Not normally required with adequate ventilation. If engineering controls do not maintain airborne

concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

#### 9. Physical and chemical properties

Appearance Clear, colorless liquid

Liquid. Physical state Liquid. Form Color Colorless Odor Lemon odor Not available Odor threshold

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12 - 13 Concentrate

Melting point/freezing point Not applicable / Not available

Initial boiling point and boiling 210 °F (98.89 °C)

> 180.0 °F (> 82.2 °C) Tag Closed Cup Flash point

Evaporation rate < 1 (ethyl ether = 1) Not available.

Flammability (solid, gas) Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available. Vapor pressure 17.36 mm Hg 1.03 Air = 1 Vapor density Relative density 1.02 at 77°F

Solubility(ies)

Solubility (water) 100 % Complete

Not available Partition coefficient (n-octanol/water)

Auto-ignition temperature Not available Decomposition temperature Not available Not available Viscosity

Other information

Density 8.49 lb/gal Percent volatile 96.5 - 97.5 % VOC (Weight %) 8.01 %

## 10. Stability and reactivity

Reactivity Reacts violently with strong acids. This product may react with oxidizing agents.

Material is stable under normal conditions. Chemical stability

No dangerous reaction known under conditions of normal use. Possibility of hazardous

reactions

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials. Conditions to avoid

Acids. Oxidizing agents. Incompatible materials

Hazardous decomposition No hazardous decomposition products are known.

products

## 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.

Expected to be a low ingestion hazard. Ingestion

Symptoms related to the physical, chemical and

Irritation of eyes. Exposed individuals may experience eye tearing, redness, and discomfort.

toxicological characteristics

Information on toxicological effects

Toxicity data is not available for this mixture. Data below are estimates based on summation Acute toxicity

methods.

Product Species Test Results

QT-TB

Acute Dermal

LD50 Rabbit 33750 mg/kg estimated

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Product	Species	Test Results
Inhalation		
LC50	Mouse	5882.353 mg/l, 2 Hours estimated
		5871.021 mg/l, 4 Hours estimated
	Rat	12058.8232 mg/l, 0.5 Hours estimated
		7058.8237 mg/l, 4 Hours estimated
Oral		
LD50	Guinea pig	24837.5996 mg/kg estimated
	Mouse	27265.4043 mg/kg estimated
	Rabbit	27500 mg/kg estimated
	Rat	48439.9336 mg/kg estimated
Components	Species	Test Results
2-(2-butoxyethoxy)ethanol (	CAS 112-34-5)	
Acute		
Dermal		
LD50	Rabbit	2700 mg/kg
Oral		
LD50	Guinea pig	2000 mg/kg
	Mouse	2400 mg/kg
	Rabbit	2200 mg/kg
	Rat	4500 mg/kg
Tetrasodium ethylenediamir	ne tetraacetate (CAS 64-02-8)	
Acute		
Oral		
LD50	Rat	> 2000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye Causes eye irritation.

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -Not classified.

single exposure

Specific target organ toxicity - Not classified.

repeated exposure

Prolonged inhalation may be harmful. Aspiration hazard Prolonged inhalation may be harmful. Chronic effects

12. Ecological information

The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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Product		Species	Test Results
QT-TB			
Aquatic			
Crustacea	EC50	Daphnia	27111.5469 mg/l, 48 hours estimated
Fish	LC50	Fish	14750.9004 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-butoxyethoxy)eth	nanol (CAS 112-34-	5)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Tetrasodium ethylene	diamine tetraacetat	e (CAS 64-02-8)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability 
No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

2-(2-butoxyethoxy)ethanol

0.56

Mobility in soil Other adverse effects No data available.

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

Disposal 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.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused products

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

quidance.

Contaminated packaging

CONTAINER DISPOSAL - Nonrefillable container. Do not reuse or refill container. Clean container promptly after emptying. Triple rinse as follows: Fill container ¼ full with water. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Repeat this procedure two more times. Offer for recycling or reconditioning, if available. If not available, puncture and dispose in a sanitary landfill. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

Not regulated as dangerous goods.

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.

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

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

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#### SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

### Other federal regulations

Safe Drinking Water Act (SDWA)

Not regulated.

FIFRA Information

FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-83-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Avoid contact with eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. If in eyes: Hold 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. Call a poison control center or doctor for treatment advice. 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 vomitting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

Yes

#### US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List Not regulated.

US. New Jersey Worker and Community Right-to-Know Act Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed. US. Rhode Island RTK

Not regulated.

## US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### International Inventories

Country(s) or region On inventory (yes/no)\* Inventory name United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory \*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).

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

01

Issue date 04-04-2015 Version #

HMIS® ratings

Health: 1 Flammability: 2 Physical hazard: 0

Disclaimer

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SDS US

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