

# SAFETY DATA SHEET

### 1. Identification

| 1. Identification  |  |   |  |
|--|--|---|--|
| Product identifier   | QT-TB  |   |  |
| Other means of identification  |  |   |  |
| SDS number   | 538N-57A   |   |  |
| Product code   | HIL01011   |   |  |
| Product registration<br>number   | 1839-83-1658   |   |  |
| Recommended use  | Disinfectant/Cleaner   |   |  |
| <b>Recommended restrictions</b>  | None known.  |   |  |
| Manufacturer/Importer/Supplier/  | Distributor information  |   |  |
| Manufacturer   |  |   |  |
| Manufacturer   |  |   |  |
| Company name<br>Address  | HILLYARD INDUSTRIES<br>302 North Fourth St.<br>St. Joseph, MO 64501  |   |  |
| Contact person<br>Telephone number<br>Fax<br>E-mail<br>Emergency telephone # | Regulatory Affairs<br>(816) 233-1321 (Ext. 8285)<br>(816) 383-8485<br>regulatoryaffairs@hillyard.com   |   |  |
|  | (800) 424-9300<br>(Only in the event of chemical emergency inv<br>or accident involving chemicals.)  | olving a spill, leak, fire, exposure,   |  |
| 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 surfaces No smoking. Wash thoroughly after<br>handling. Wear protective gloves/eye protection/face protection.  |   |  |
| Response   | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish. |   |  |
| Storage  | Store in a well-ventilated place. Keep cool.   |   |  |
| Disposal   |  | d with disposal of this product (original concentration mpliance with applicable federal, state and local |  |
| Hazard(s) not otherwise<br>classified (HNOC)                                 | None known.  |   |  |
| Supplemental information   | None.  |   |  |

# 3. Composition/information on ingredients

#### **Mixtures**

| 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) dim<br>ethylbenzyl ammonium chloride              |   | 85409-23-0                  | < 0.2              |
| Alkyl dimethyl benzyl ammoniu<br>chloride (C12-18)                         | m   | 68391-01-5                  | < 0.2              |
| Other components below repor   | table levels  |                             | 90 - 100           |
| Designates that a specific chemic  | cal identity and/or percentage of composition has b   | een withheld as a trade s   | ecret.             |
| I. First-aid measures  |   |                             |                    |
| nhalation  | Move to fresh air. Call a physician if symptoms d   | evelop or persist.          |                    |
| skin contact   | Wash off with soap and water. Get medical atten   | tion if irritation develops | and persists.      |
| ye contact   | Immediately flush eyes with plenty of water for a present and easy to do. Continue rinsing. Get me  |                             |                    |
| ngestion   | 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 convuls Do not induce vomiting without advice from poison control center. If vomiting occurs, keep he low so that stomach content doesn't get into the lungs. NOTE TO PHYSICIAN: Probable muc damage may contraindicate the use of gastric lavage. |                             |                    |
| lost important<br>ymptoms/effects, acute and<br>lelayed                    | Irritation of eyes. Exposed individuals may exper   | ience eye tearing, rednes   | ss, and discomfort |
| ndication of immediate<br>nedical attention and special<br>reatment needed | Provide general supportive measures and treat symptomatically. Keep victim under observa Symptoms may be delayed.   |                             |                    |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precaut protect themselves.   |                             | take precautions t |
| 5. Fire-fighting measures  |   |                             |                    |
| uitable extinguishing media  | Water fog. Foam. Dry chemical powder. Carbon  | dioxide (CO2).              |                    |
| Insuitable extinguishing<br>nedia  | Do not use water jet as an extinguisher, as this will spread the fire.  |                             |                    |
| pecific hazards arising from<br>he chemical                                | The product is combustible, and heating may ge mixtures. During fire, gases hazardous to health   |                             | form explosive va  |
| pecial protective equipment<br>nd precautions for firefighters             | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |                             |                    |
| ire fighting<br>quipment/instructions                                      | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if yo so without risk.  |                             |                    |
| pecific methods  | Use standard firefighting procedures and consider the hazards of other involved materials   |                             |                    |
| pecific methods  |   |                             |                    |

#### 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. 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.   |
| 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.<br>Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear<br>appropriate personal protective equipment. Observe good industrial hygiene practices.  |
| Conditions for safe storage, including any incompatibilities | DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.<br>PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than 120°F.   |
|  | 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<br>(CAS 112-34-5) | TWA   | 10 ppm                           | Inhalable fraction and vapor.   |  |
| Biological limit values                     | No biological exposure limits noted for the ingredient(s).  |                                  |                                 |  |
| Appropriate engineering<br>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. Provie eyewash station. |                                  |                                 |  |
| Individual protection measures              | s, such as personal protective equipment  | t                                |                                 |  |
| Eye/face protection                         | Use safety eyewear with splash guards   | or side shields, chemical g      | oggles, or face shields.        |  |
| Skin protection                             |   |                                  |                                 |  |
| Hand protection                             | Wear protective gloves.   |                                  |                                 |  |
| Other                                       | None normally required. If unable to avoid prolonged or repeated contact with skin, wear<br>impervious clothing.  |                                  |                                 |  |
| Respiratory protection                      | Not normally required with adequate ver<br>concentrations below recommended exp<br>(in countries where exposure limits have<br>worn.  | oosure limits (where application | able) or to an acceptable level |  |
| Thermal hazards                             | Wear appropriate thermal protective clot  | hing, when necessary.            |                                 |  |
| General hygiene<br>considerations           | When using do not smoke. Always obse after handling the material and before ea clothing and protective equipment to ren   | ating, drinking, and/or smol     |                                 |  |

# 9. Physical and chemical properties

| Appearance     | Clear, colorless liquid |
|----------------|-------------------------|
| Physical state | Liquid.                 |
| Form           | Liquid.                 |
| Color          | Colorless               |
| Odor           | Lemon odor              |
| Odor threshold | Not available           |

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| рН   | 12 - 13 Concentrate                   |
|--|---------------------------------------|
| Melting point/freezing point               | Not applicable / Not available        |
| Initial boiling point and boiling range    | 210 °F (98.89 °C)                     |
| Flash point                                | > 180.0 °F (> 82.2 °C) Tag Closed Cup |
| Evaporation rate                           | < 1 (ethyl ether = 1)                 |
| Flammability (solid, gas)                  | Not available.                        |
| 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<br>(n-octanol/water) | Not available                         |
| Auto-ignition temperature                  | Not available                         |
| Decomposition temperature                  | Not available                         |
| Viscosity                                  | Not available                         |
| 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.   |
|---------------------------------------|---|
| Chemical stability                    | Material is stable under normal conditions.   |
| Possibility of hazardous<br>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. Do not mix with other chemicals. Contact with incompatible materials. |
| Incompatible materials                | Acids. Oxidizing agents.  |
| Hazardous decomposition<br>products   | 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 ef  | fects  |   |  |
| Acute toxicity   | Toxicity data is not available methods.  | for this mixture. Data below are estimates based on summation |  |
| Product  | Species  | Test Results  |  |
| QT-TB  |  |   |  |
| Acute  |  |   |  |
| Dermal   |  |   |  |
| LD50   | Rabbit   | 33750 mg/kg estimated   |  |

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| Product   | Species  | Test Results   |
|---|--|--|
| Inhalation  | Maura  |  |
| 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  | Cuince nig   | 24827 E006 mailing estimated   |
| 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 1<br>Acute             | 12-34-5)   |  |
| Dermal  |  |  |
| LD50  | Rabbit   | 2700 mg/kg   |
| Oral  |  | 5.5  |
| LD50  | Guinea pig   | 2000 mg/kg   |
|   | Mouse  | 2400 mg/kg   |
|   | Rabbit   | 2200 mg/kg   |
|   | Rat  | 4500 mg/kg   |
| Tetrasodium ethylenediamine tetr<br>Acute             | aacetate (CAS 64-02-8)   |  |
| Oral  | 5.4  | 0000 //  |
| LD50  | Rat  | > 2000 mg/kg   |
| * Estimates for product may b                         | be based on additional component data  | not shown.   |
| Skin corrosion/irritation                             | Prolonged skin contact may cause te  | mporary irritation.  |
| Serious eye damage/eye<br>irritation                  | Causes eye irritation.   |  |
| Respiratory or skin sensitizatio                      |  |  |
| 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. |  |
| Carcinogenicity                                       | This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.                                  |  |
|   | ulated Substances (29 CFR 1910.100 <sup>2</sup>  | -1050)   |
| Not listed.   | This product is not expected to equa   | ranzaduativa az davalanmantal affasta  |
| Reproductive toxicity                                 | Not classified.  | reproductive or developmental effects.   |
| Specific target organ toxicity -<br>single exposure   |  |  |
| Specific target organ toxicity -<br>repeated exposure | Not classified.  |  |
| Aspiration hazard                                     | Prolonged inhalation may be harmful  |  |
| Chronic effects                                       | Prolonged inhalation may be harmful  |  |
| 12. Ecological information                            | ı  |  |
| Ecotoxicity   |  | onmentally hazardous. However, this does not exclude th can have a harmful or damaging effect on the environme |

| 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)ethanol (C                               | AS 112-34-5)  |  |   |
| Aquatic  |   |  |   |
| Fish   | LC50  | Bluegill (Lepomis macrochirus)               | 1300 mg/l, 96 hours   |
| Tetrasodium ethylenediamine                                | e tetraacetate  | (CAS 64-02-8)                                |   |
| Aquatic  |   |  |   |
| Fish   | LC50  | Bluegill (Lepomis macrochirus)               | 472 - 500 mg/l, 96 hours  |
| * Estimates for product may b                              | e based on a  | dditional component data not shown.          |   |
| rsistence and degradability                                | No data is a  | available on the degradability of this produ | ict.  |
| paccumulative potential                                    |   |  |   |
| Partition coefficient n-octar<br>2-(2-butoxyethoxy)ethanol | nol / water (lo   | <b>9g Kow)</b><br>0.56                       |   |
| bility in soil   | No data av  | ailable.                                     |   |
| 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.   |  |   |
| . Disposal consideratio                                    | ns  |  |   |
| 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 Environmen 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.  |  | s.  |
| zardous waste code   | The waste code should be assigned in discussion between the user, the producer and the was disposal company.  |  |   |
| aste from residues / unused<br>oducts                      | PESTICIDE DISPOSAL – Pesticide wastes are acutely hazardous. Improper disposal of excer<br>pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be<br>disposed of by use according to label instructions, contact your State Pesticide or Environment<br>Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for<br>guidance.  |  |   |
| ntaminated 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. The container on its side and roll it back and forth, ensuring at least one complete revolution for seconds. Stand the container on its end and tip it back and forth several times. Turn the cover onto its other end and tip it back and forth several times. Repeat this procedure two matimes. Offer for recycling or reconditioning, if available. If not available, puncture and disposanitary landfill. Since emptied containers may retain product residue, follow label warnings after container is emptied. |  | ows: Fill container ¼ full with water. Tip<br>ng at least one complete revolution for 30<br>ck and forth several times. Turn the conta<br>ral times. Repeat this procedure two more<br>le. If not available, puncture and dispose |

### 14. Transport information

### DOT

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.

| SARA 304 Emergency relea                   | use notification  |
|--|---|
| Not regulated.                             |   |
|  | ulated Substances (29 CFR 1910.1001-1050)   |
| Not listed.                                |   |
| -  | eauthorization Act of 1986 (SARA)   |
| Hazard categories                          | Immediate Hazard - Yes<br>Delayed Hazard - No<br>Fire Hazard - Yes<br>Pressure Hazard - No<br>Reactivity Hazard - No  |
| SARA 302 Extremely hazar<br>Not listed.    | dous substance  |
| SARA 311/312 Hazardous chemical            | No  |
| SARA 313 (TRI reporting)<br>Not regulated. |   |
| Other federal regulations                  |   |
| Safe Drinking Water Act<br>(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<br>KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Avoid contact with eyes,<br>or clothing. Wash thoroughly with soap and water after handling and before eating, drinking,<br>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 for treatment advice. If swallowed: Call a poison control center or swallow. Do not induce vomiting 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. |
| US state regulations                       |   |
| -  | ubstances. CA Department of Justice (California Health and Safety Code Section 11100)   |
| Not listed.<br>US. Massachusetts RTK - S   | substance List  |
| Not regulated.                             |   |
|  | d Community Right-to-Know Act   |
| Not listed.<br>US. Pennsylvania Worker a   | nd Community Right-to-Know Law  |
| Not listed.                                |   |
| US. Rhode Island RTK<br>Not regulated.     |   |
| US. California Proposition 6               | 85  |
| California Safe Drinking                   | Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain<br>listed as carcinogens or reproductive toxins.  |
| International Inventories                  |   |
| Country(s) or region                       | Inventory name On inventory (yes/no)*   |
| United States & Puerto Rico                | Toxic Substances Control Act (TSCA) Inventory Yes   |
|  | nents of this product comply with the inventory requirements administered by the governing country(s)<br>e components of the product are not listed or exempt from listing on the inventory administered by the governing   |
| Material name: QT-TB                       | SDS US  |

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

| Issue date<br>Version #<br>HMIS® ratings | 04-04-2015<br>01<br>Health: 1<br>Flammability: 2<br>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. |