# Safety Data Sheet
# Quatricide® TB

**SDS Revision Date:** **07/30/2019**

## 1. Identification

**1.1. Product identifier**

| | |
|---|---|
| **Product Identity** | Quatricide® TB |
| **Alternate Names** | Quatricide® TB |

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

| | |
|---|---|
| **Intended use** | Consult with your Pharmacal Representative |
| **Application Method** | |

**1.3. Details of the supplier of the safety data sheet**

| | |
|---|---|
| **Company Name** | Pharmacal Research Labs., Inc.<br>562 Captain Neville Dr.<br>Waterbury, CT 06705, USA |
| **Emergency** | |
| **CHEMTREC (USA)** | (800) 424-9300 |
| **IN CANADA CALL CANUTEC** | (613) 996-6666 |
| **Customer Service: Pharmacal Research Labs., Inc.** | 203-755-4908, (800)-243-5350 |

## 2. Hazard(s) identification

**2.1. Classification of the substance or mixture**

Eye Irrit. 2;H319 Causes serious eye irritation.

**2.2. Label elements**

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

**Warning**

H319 Causes serious eye irritation.

**[Prevention]:**

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

**[Response]:**

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P337+313 If eye irritation persists: Get medical advice / attention.

**[Storage]:**

No GHS storage statements

**[Disposal]:**

P501 Dispose of contents / container in accordance with local / national regulations.

## 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|---|---|---|---|
| **Butyl diglycol<br>CAS Number: 0000112-34-5** | **1.0 - 10** | **Eye Irrit. 2;H319** | **[1]** |
| **Tetrasodium EDTA<br>CAS Number: 0000064-02-8** | **1.0 - 10** | **Acute Tox. 4;H302<br>Eye Dam. 1;H318** | **[1]** |
| **_Alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride Cas Number: 85409-23-0** | **0.105** | **Eye Irrit. 2;H319** | **[1]** |
| **_Alkyl dimethyl benzyl ammonium chloride (C12-18) Cas number: 68391-01-5** | **0.105** | **Eye Irrit. 2;H319** | **[1]** |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.
[1] Substance classified with a health or environmental hazard.
[2] Substance with a workplace exposure limit.
[3] PBT-substance or vPvB-substance.
*The full texts of the phrases are shown in Section 16.

## 4. First aid measures

### 4.1. Description of first aid measures

**General** In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

**Inhalation** Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

**Eyes** Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

**Skin** Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.

**Ingestion** • Call a poison control center or doctor immediately for treatment advice.
• Have person drink egg whites or gelatin solution, or if these are not available, drink large

quantities of water if able to swallow.
• Do not give anything by mouth to an unconscious person.

### 4.2. Most important symptoms and effects, both acute and delayed

**Overview** Contact with eyes causes irritation. Prolonged or repeated contact with skin may cause irritation. Vapors or mist may irritate respiratory passages. Probable mucosal damage may contraindicate the use of gastric lavage. See section 2 for further details.

**Eyes** Causes serious eye irritation.

## 5. Fire-fighting measures

### 5.1. 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.

### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Hydrogen chloride and chlorine. Chlorine gas rate of decomposition increases with the concentration with temperatures above 85 degrees F (30C).

### 5.3. Advice for fire-fighters

During fire, gases hazardous to health may be formed.
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**ERG Guide No.** ----

## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

### 6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

### 6.3. Methods and material for containment and cleaning up

Contain all spills and leaks to prevent discharge to the environment. Ventilate area. Recover liquid and dispose waste material in accordance with all applicable federal, state and local laws.

## 7. Handling and storage

### 7.1. Precautions for safe handling

Severely irritating to skin & eyes. Use self-contained breathing apparatus for maximum respiratory protection. Water may be used to cool containers if not ruptured or leaking.

See section 2 for further details. - [Prevention]:

**7.2. Conditions for safe storage, including any incompatibilities**

Handle containers carefully to prevent damage and spillage.

Incompatible materials: Avoid contact with anionic materials and strong oxidizers.

Do not reuse empty containers. Triple rinse with water and dispose of in conformance with federal, state and local regulations.

See section 2 for further details. - [Storage]:

**7.3. Specific end use(s)**

No data available.

## 8. Exposure controls and personal protection

| **8.1. Control parameters** | | | |
|---|---|---|---|
| **Exposure** | | | |
| **US. ACGIH Threshold Limit Values Components** | **Type** | **Value** | **Form** |
| _Diethylene glycol monobutyl ether (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 controls: Ensure adequate ventilation, especially in confined areas. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Hand protection: Wear protective gloves.

Skin protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: 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.

See section 2 for further details. - [Prevention]:

## 9. Physical and chemical properties

| | |
|---|---|
| **Appearance** | Clear Liquid |
| **Odor** | |
| **Odor threshold** | Not Measured |
| **pH** | 11.7 |
| **Melting point / freezing point** | >32 °F |
| **Initial boiling point and boiling range** | >212 °F |
| **Flash Point** | >201 °F Pensky-Martens Closed Cup |
| **Evaporation rate (Ether = 1)** | Not Measured |
| **Flammability (solid, gas)** | Not Applicable |
| **Upper/lower flammability or explosive limits** | **Lower Explosive Limit:** Not Measured |
| | **Upper Explosive Limit:** Not Measured |
| **Vapor pressure (Pa)** | Not Measured |
| **Vapor Density** | Not Measured |
| **Specific Gravity** | 1.0 |
| **Solubility in Water** | Complete |
| **Partition coefficient n-octanol/water (Log Kow)** | Not Measured |
| **Auto-ignition temperature** | Not Measured |
| **Decomposition temperature** | Not Measured |
| **Viscosity (cSt)** | Not Measured |

**9.2. Other information**

No other relevant information.

## 10. Stability and reactivity

**10.1. Reactivity**

Product is stable and non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal circumstances.

**10.3. Possibility of hazardous reactions**

No data available.

**10.4. Conditions to avoid**

Avoid temperatures exceeding the flash point.

**10.5. Incompatible materials**

Strong acids, alkalies and oxidizing agents

**10.6. Hazardous decomposition products**

Upon decomposition, this product may yield oxides of nitrogen and ammonia, carbon dioxide, carbon monoxide and other low molecular weight hydrocarbons.

## 11. Toxicological information

**Acute toxicity**

| Product | Oral LD50, g/kg | Skin LD50, g/kg | Inhalation LC50, mg/L |
|---|---|---|---|
| Quatricide TB | >5, Rat | > 5, Rabbit | >5, Rat |
| | | | |

| Classification | Category | Hazard Description |
|---|---|---|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | --- | Not Applicable |
| Serious eye damage/irritation | 2 | Causes serious eye irritation. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

## 12. Ecological information

**12.1. Toxicity**

No additional information provided for this product. See Section 3 for chemical specific data.

**Aquatic Ecotoxicity**

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|---|---|---|---|
| Tetrasodium EDTA - (64-02-8) | 486.00, Lepomis macrochirus | 610.00, Daphnia magna | 100.00 (72 hr), Scenedesmus subspicatus |

**12.2. Persistence and degradability**

Expected to be readily biodegradable.

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This product contains no PBT/vPvB chemicals.

**12.6. Other adverse effects**

No data available.

## 13. Disposal considerations

**13.1. Waste treatment methods**

Observe all federal, state and local regulations when disposing of this substance.

## 14. Transport information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|---|---|---|---|
| **14.1. UN number** | Not Applicable | Not Regulated | Not Regulated |
| **14.2. UN proper shipping name** | Not Regulated | Not Regulated | Not Regulated |
| **14.3. Transport hazard class(es)** | **DOT Hazard Class:** Not Applicable | **IMDG:** Not Applicable<br>**Sub Class:** Not Applicable | **Air Class:** Not Applicable |
| **14.4. Packing group** | Not Applicable | Not Applicable | Not Applicable |

**14.5. Environmental hazards**

**IMDG** Marine Pollutant: No

**14.6. Special precautions for user**

No further information

## 15. Regulatory information

**Regulatory Overview** The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

**FIFRA** This chemical is a pesticide product registered by the Environmental Protection Agency 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION
Keep out of reach of children
Causes moderate eye irritation.
Avoid contact with eyes or clothing .
ENVIRONMENTAL HAZARDS: This product is toxic to fish.

**Toxic Substance Control Act ( TSCA)** All components of this material are either listed or exempt from listing on the TSCA Inventory.

**WHMIS Classification** D2B E

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

**Fire:** No

**Sudden Release of Pressure:** No

**Reactive:** No

**Immediate (Acute):** Yes

**Delayed (Chronic):** No

**EPCRA 311/312 Chemicals and RQs:**
Yes

**EPCRA 302 Extremely Hazardous:**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**EPCRA 313 Toxic Chemicals:**

Butyl diglycol

**Proposition 65 - Carcinogens (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Developmental Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Female Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Proposition 65 - Male Repro Toxins (>0.0%):**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**New Jersey RTK Substances (>1%) :**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

**Pennsylvania RTK Substances (>1%) :**
To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

## 16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

**Revision Date: 07/30/2019 Supersedes: 04/01/2015 Reason: Review and Update**

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

The information and recommendations contained herein are, to the best of Pharmacal's knowledge and belief, accurate and reliable as of the date issued. Pharmacal does not warrant or guarantee their accuracy or reliability, and Pharmacal shall not be liable for any loss or damage arising out of there use thereof.
The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.
The hazardous materials identification system (HMIS) and national fire protection association ratings have been included by Pharmacal research laboratories INC. In order to provide additional health and hazard information. The ratings recommended are based upon criteria supplied by the developers of these rating systems, together with Pharmacal's interpretation of the available data.

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