

# Safety Data Sheet

Issue Date: 07-Sep-2021

Revision Date: 25-June-2025

Version 3

## 1. IDENTIFICATION

### Product identifier

**Product Name** EarthTec™ QZ

### Other means of identification

**SDS #** ESL-011-CA

**Synonyms** None

**UN/ID No** UN3082

### Recommended use of the chemical and restrictions on use

**Recommended Use** For industrial use

**Uses Advised Against** No information available

### Details of the supplier of the safety data sheet

#### Initial supplier identifier

Univar Solutions Canada Ltd.  
64 Arrow Road  
North York, ON M9M2L9

#### Manufacturer Address

Earth Science Laboratories, Inc.  
903 N 47th Street, Suite 105  
Rogers, AR 72756  
earthsciencelabs.com

### Emergency telephone number

**Initial supplier phone number** Please enter Initial Suppliers Phone Number here  
**Emergency Telephone** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear blue liquid

**Physical state** Liquid

**Odor** Minimal

### Classification

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 2

### Signal word

**Warning**

### **Hazard statements**

Causes skin irritation

Causes serious eye irritation



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - 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  
IF ON SKIN: Wash with plenty of water and soap  
Take off contaminated clothing and wash it before reuse  
If skin irritation occurs: Get medical advice/attention

**Other Information**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable.

**Mixture**

| Chemical name               | CAS No    | Weight-% | Hazardous Material<br>Information Review Act<br>registry number<br>(HMIRA registry #) | Date HMIRA filed and<br>date exemption<br>granted (if applicable) |
|-----------------------------|-----------|----------|---|---|
| Copper sulfate pentahydrate | 7758-99-8 | 10-30    | -   | -   |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures**

|   |   |
|---|---|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance.  |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Ingestion</b>                          | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.   |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May be harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|   |  |
|---|--|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable extinguishing media</b>                 | CAUTION: Use of water spray when fighting fire may be inefficient.   |
| <b>Specific hazards arising from the chemical</b>     | May react with high carbon metals to produce hydrogen gas, which can form an explosive mixture.                                    |
| <b>Explosion Data</b>                                 |  |
| <b>Sensitivity to Mechanical Impact</b>               | None.  |
| <b>Sensitivity to Static Discharge</b>                | None.  |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
| <b>Other Information</b>    | Refer to protective measures listed in sections 7 and 8.   |

### Environmental precautions

|                                  |   |
|----------------------------------|---|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|---|

### Methods and material for containment and cleaning up

|  |  |
|--|--|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |   |
|--------------------------------|---|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
|--------------------------------|---|

### Conditions for safe storage, including any incompatibilities

|                               |  |
|-------------------------------|--|
| <b>Storage Conditions</b>     | Store undiluted product in original shipping containers or in containers made with plastic polymers. Store locked up. Store in a safe place away from pets and keep out of the reach of children. Store away from excessive heat. Product will freeze and freezing may cause product separation. Always store product above 32 degrees F (Do Not Freeze). Freezing may cause product separation. Always keep container closed. Keep away from galvanized pipe and any nylon storage or handling equipment. |
| <b>Incompatible materials</b> | Strong acids Strong bases Strong oxidizing agents  |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

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

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Hand protection** Wear suitable gloves. Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                   |
|-----------------------|-------------------|
| <b>Physical state</b> | Liquid            |
| <b>Appearance</b>     | Clear blue liquid |
| <b>Color</b>          | Blue              |
| <b>Odor</b>           | Minimal           |
| <b>Odor Threshold</b> | Not determined    |

| <u>Property</u>                                | <u>Values</u>         | <u>Remarks • Method</u> |
|--|-----------------------|-------------------------|
| <b>pH</b>                                      | No data available     |                         |
| <b>Melting point / freezing point</b>          | No data available     |                         |
| <b>Initial boiling point and boiling range</b> | 104.4° C / 220° F     |                         |
| <b>Flash point</b>                             | No data available     |                         |
| <b>Evaporation Rate</b>                        | Not determined        |                         |
| <b>Flammability (Solid, Gas)</b>               | Liquid-Not applicable |                         |
| <b>Flammability Limit in Air</b>               |                       |                         |
| <b>Upper flammability or explosive limits</b>  | No data available     |                         |
| <b>Lower flammability or explosive limits</b>  | No data available     |                         |
| <b>Vapor Pressure</b>                          | 0.1 mm at 68° F       |                         |
| <b>Vapor Density</b>                           | 1.0                   | (Air=1)                 |
| <b>Relative Density</b>                        | 1.165-1.185           | (Water=1)               |
| <b>Water Solubility</b>                        | Completely soluble    |                         |
| <b>Solubility in other solvents</b>            | Not determined        |                         |
| <b>Partition Coefficient</b>                   | Not determined        |                         |
| <b>Autoignition temperature</b>                | No data available     |                         |
| <b>Decomposition temperature</b>               | Not determined        |                         |

|                                 |                      |                                |
|---------------------------------|----------------------|--------------------------------|
| Kinematic viscosity             | Not determined       | <b><u>Remarks • Method</u></b> |
| <b><u>Property</u></b>          | <b><u>Values</u></b> |                                |
| Dynamic Viscosity               | Not determined       |                                |
| Explosive properties            | Not determined.      |                                |
| Oxidizing properties            | Not determined.      |                                |
|                                 |                      |                                |
| <b><u>Other information</u></b> |                      |                                |
| Softening Point                 | Not determined       |                                |
| Molecular weight                | Not determined       |                                |
| VOC content                     | No data available    |                                |
| Liquid Density                  | Not determined       |                                |
| Bulk density                    | Not determined       |                                |

## 10. STABILITY AND REACTIVITY

|                                    |  |
|------------------------------------|--|
| Reactivity                         | Not reactive under normal conditions.                |
| Chemical stability                 | Stable under normal conditions.                      |
| Possibility of hazardous reactions | None under normal processing.                        |
| Hazardous Polymerization           | Will not occur.                                      |
| Conditions to Avoid                | None known based on information supplied.            |
| Incompatible materials             | Strong acids. Strong bases. Strong oxidizing agents. |
| Hazardous decomposition products   | Sulfur dioxide. Sulfur trioxide.                     |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |   |
|--------------|---|
| Eye contact  | Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components). Causes serious eye irritation.       |
| Skin contact | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                  |
| Inhalation   | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.                                      |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

### Symptoms related to the physical, chemical and toxicological characteristics

|                |   |
|----------------|---|
| Symptoms       | Redness. May cause redness and tearing of the eyes. |
| Acute toxicity |   |

The following values are calculated based on chapter 3.1 of the GHS document

|                 |           |
|-----------------|-----------|
| ATEmix (oral)   | 2,298.90  |
| ATEmix (dermal) | 36,781.60 |

|                        |                          |
|------------------------|--------------------------|
| Unknown acute toxicity | No information available |
|------------------------|--------------------------|

**Component Information**

| Chemical name                            | Oral LD50           | Dermal LD50         | Inhalation LC50   |
|--|---------------------|---------------------|-------------------|
| Copper sulfate pentahydrate<br>7758-99-8 | = 472 mg/kg ( Rat ) | > 8 g/kg ( Rabbit ) | > 2.95 mg/L (Rat) |

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|  |   |
|--|---|
| <b>Skin corrosion/irritation</b>         | Classification based on data available for ingredients. Irritating to skin.   |
| <b>Serious eye damage/eye irritation</b> | Classification based on data available for ingredients. Irritating to eyes.   |
| <b>Carcinogenicity</b>                   | Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP. |

**12. ECOLOGICAL INFORMATION**

**Marine Pollutant** This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.

**Ecotoxicity**

| Chemical name                            | Algae/aquatic plants | Fish   | Toxicity to microorganisms | Crustacea                                    |
|--|----------------------|--|----------------------------|--|
| Copper sulfate pentahydrate<br>7758-99-8 | -                    | LC50: 0.66 - 1.15mg/L (96h, Lepomis macrochirus)<br>LC50: 0.96 - 1.8mg/L (96h, Lepomis macrochirus)<br>LC50: 0.1478 - 0.165mg/L (96h, Oncorhynchus mykiss)<br>LC50: 0.09 - 0.19mg/L (96h, Oncorhynchus mykiss)<br>LC50: =0.6752mg/L (96h, Pimephales promelas) | -                          | EC50: 0.147 - 0.227mg/L (48h, Daphnia magna) |

**Persistence/Degradability** No information available.

**Bioaccumulation** No information available.

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

|  |   |
|--|---|
| <b>Waste from residues/unused products</b> | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| <b>Contaminated packaging</b>              | Do not reuse empty containers.  |

**14. TRANSPORT INFORMATION**

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances

**DOT**

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate)  
 Transport hazard class(es) 9  
 Packing Group III  
 Reportable Quantity (RQ) Cupric sulfate (10 lbs)  
 Marine Pollutant This material ships as a marine pollutant when single container exceeds 119 gal/ 882 lbs.

**TDG**

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate)  
 Transport hazard class(es) 9  
 Packing Group III

**MEX**

UN/ID No UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate)  
 Transport hazard class(es) 9  
 Packing Group III

**IATA**

UN number or ID number UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate)  
 Transport hazard class(es) 9  
 Packing group III  
 Description This material ships as a marine pollutant when inner packagings exceed 5L/5KG

**IMDG**

UN number or ID number UN3082  
 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s. (Cupric Sulfate)  
 Transport hazard class(es) 9  
 Packing Group III  
 Marine Pollutant This material ships as a marine pollutant when inner packagings exceed 5L/5KG

|                                   |
|-----------------------------------|
| <b>15. REGULATORY INFORMATION</b> |
|-----------------------------------|

**REGULATORY INFORMATION****International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

**International Inventories**

| Chemical name               | TSCA | DSL/NDSL | EINECS/ELI<br>NCS | ENCS | IECSC | KECI | PICCS | AIIC |
|-----------------------------|------|----------|-------------------|------|-------|------|-------|------|
| Copper sulfate pentahydrate | X    |          |                   | X    | X     |      | X     | X    |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing Chemicals Inventory  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 2 | <b>Flammability</b> 0 | <b>Physical hazards</b> 1 | <b>Personal Protection</b> X |

**Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|         |                                  |
|---------|----------------------------------|
| TWA     | TWA (time-weighted average)      |
| STEL    | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value              |
| *       | Skin designation                 |

**Revision Date:** 25-June-2025  
**Revision Note:** Section 7 Update

**Maximum Use Limit (MUL) associated with NSF certification is 19mg/L, which does not supersede the product label.**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**