Safety Data Sheet

Issue Date: 07-Sep-2021 Revision Date: 29-July-2025 Version 4

1. IDENTIFICATION

Product identifier

Product Name EarthTec[™] QZ

Other means of identification

SDS # ESL-011-CA

PMRA PCP Registration No. 35299

UN/ID No UN3082

Recommended use of the chemical and restrictions on use

Recommended Use For industrial use.

Details of the supplier of the safety data sheet

Initial supplier identifier Manufacturer Address

Univar Solutions Canada Ltd. Earth Science Laboratories, Inc. 64 Arrow Road 903 N 47th Street, Suite 105

North York, ON M9M2L9 Rogers, AR 72756 earthsciencelabs.com

Emergency Telephone

Initial supplier phone number +1 416-740-5300

Emergency Telephone INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Skin irritation	Category 2
Eye irritation	Category 2

Signal Word Warning

Hazard statements

Causes skin irritation Causes 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 attention.

IF ON SKIN (or hair): Wash with plenty of water. Specific treatment can be found in Section 4 - First Aid

Measures of the SDS. If skin irritation occurs: Get medical attention. Take off

contaminated clothing and wash it before reuse.

Other Information

Hazardous to the aquatic environment, acute hazard Category 1 and Hazardous to the aquatic environment, long-term hazard Category 2.

3. COMPOSITION /INFORMATION ON INGREDIENTS

Substance

Not applicable.

<u>Mixture</u>

Chemical name	CAS No.	Weight-%	Hazardous Materia Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date evemption 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

General advice Show this Safety Data Sheet to the doctor in attendance.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

Skin Contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash

contaminated clothing before reuse.

Inhalation Remove person to fresh air and keep comfortable for breathing. Immediately call a poison

center or doctor/physician.

Ingestion 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.

Most important symptoms and effects, both acute and delayed

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

Indication of any immediate medical attention and special treatment needed

Note to Physicians Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing media CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

May react with high carbon metals to produce hydrogen gas, which can form an explosive

mixture.

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Special protective equipment for

fire-fighters

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

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required.

Other Information Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Flush with water into a retaining area or

container.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Neutralize solution with bicarbonate of soda. Pick up and transfer to properly labeled

containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling 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

Storage ConditionsStore the product in its original shipping container or a container made from plastic

polymers. After opening, reseal any unused product in its original, airtight container. Keep the product in a safe, secure location, away from pets and out of the reach of children. Keep it locked up. Store the product away from excessive heat. Always store the product above 32°F (0°C). Do not freeze the product. Freezing can cause it to separate. Avoid

contact with galvanized pipes and nylon storage or handling equipment.

Incompatible Materials Strong bases. Strong reducing 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

Physical stateLiquidColorBlueOdorMinimalMelting point / freezing pointNot determined

Boiling point / boiling range 220° F

Flammability (Solid, Gas) Not applicable – Liquid

Lower and upper explosion limit or lower and upper flammability limit Not determined

Flash point
Auto-ignition temperature
Not determined
Decomposition temperature
Not determined
Not determined
Not determined
Decomposition temperature
Not determined

Kinematic viscosity

Not determined

Solubility – Water / Other solvents Completely soluble / Not determined

Partition Coefficient – n-octanol/water (logarithmic value)Not determinedVapor pressure0.1 mm 68° F (Air = 1)

Density and relative density Density: 1.165 – 1.185 g/kg / Rel. density 1.181 g/kg

Relative vapor pressure
Particle characteristics
Not determined
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 OPPTS Guideline 870.2400 - Acute Eye Irritation Test was performed on this product which

concluded that ocular administration produced irritation which cleared within 14 days

resulting in a Category 2 classification. Irritating to eyes.

Skin contact Causes skin irritation. OPPTS GUIDELINE 870.2500 - Acute Dermal Irritation Test was

performed on this product which concluded that a 4-hr semi-occluded conditions to rabbits resulted in slight dermal irritation in five of six test animals. This test material was classified as Toxic Category III for dermal irritation. Regardless, a Category 2 classification was

deemed appropriate.

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 toxicityNo information available.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Copper sulfate pentahydrate 7758-99-8	= 472 mg/kg (Rat)	> 8 g/kg (Rabbit)	> 2.95 mg/L (Rat)	
7750-99-0				

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

Skin irritation Causes skin irritation. OPPTS GUIDELINE 870.2500 - Acute Dermal Irritation Test was

performed on this product which concluded that a 4-hr semi-occluded conditions to rabbits resulted in slight dermal irritation in five of six test animals. This test material was classified in Toxic Category III for dermal irritation. Regardless, a Category 2 classification was

deemed appropriate.

Eye irritation Causes eye irritation. OPPTS Guideline 870.2400 - Acute Eye Irritation Test was performed

on this product which concluded that ocular administration produced irritation which cleared

within 14 days resulting in a Category 2 classification.

Carcinogenicity 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.

Chemical name	Algae/aquatic plants	Fish	Crustacea	
Copper sulfate pentahydrate		Oncorhynchus mykiss: Duration, 96 h; LC ₅₀ , 0.09 -	Daphnia magna: Duration, 48 h;	
7758-99-8		0.19 mg/L; Test Type, Static	LC ₅₀ , 0.147 - 0.227 mg/L; Test	
		Oncorhynchus mykiss: Duration, 96 h; LC ₅₀ , 0.1478	Type, Static	
		- 0.165 mg/L; Test Type, Flow-through		
		Lepomis macrochirus: Duration, 96 h; LC ₅₀ , 0.66 -		
		1.15 mg/L; Test Type, Semi-static		
		Lepomis macrochirus: Duration, 96 h; LC ₅₀ , 0.96 -		
		1.8 mg/L; Test Type, Static		
		Pimephales promelas: Duration, 96 h; LC ₅₀ , 0.6752		
		mg/L; Test Type, Static		

Persistence/Degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated Packaging 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 |||

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 |||

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

<u>IATA</u>

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 | | | |

Marine Pollutant This material ships as a marine pollutant when inner packagings exceed 5L/5KG

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

The Montreal Protocol on Not applicable Substances that Deplete the Ozone

Layer

The Stockholm Convention on Persistent Organic Pollutants

Not applicable

The Rotterdam Convention Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Copper sulfate pentahydrate	Χ			X	X		X	X

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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 and Evaluated Chemical Substances

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

NFPA Health Hazards 2 Flammability 0 Instability 0 Special Hazards - HMIS Health Hazards 2 Flammability 0 Physical hazards 1 Personal Protection 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: 29-July-2025

Revision Note: Comprehensive Review Updates

Section 7

Maximum Use Limit (MUL) associated with NSF certification is 19 mg/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