## SAFETY DATA SHEET **spectrum**<sup>®</sup>

Revision date 21-March-2024

1. Identification			
Product identifier			
Product Name	CUPRIC SULFATE, ANHYDROUS, POWDER, REAGENT		
Other means of identification			
Product Code(s)	C1418		
UN/ID no	UN3288		
Synonyms	None		
Recommended use of the chemical and restrictions on use			
Recommended use	No information available		
Restrictions on use	No information available		
Details of the supplier of the safety data sheet			
<u>Supplier Address</u> Spectrum Chemical Mfg. Corp. 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000			
Emergency telephone number			

**Emergency Telephone** 

Chemtrec 1-800-424-9300

### 2. Hazard(s) identification

#### Classification

Acute toxicity - Oral	Category 3
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A

Hazards not otherwise classified (HNOC) Not applicable

Label elements

Danger

Hazard statements Toxic if swallowed Causes skin irritation Causes serious eye irritation



**Revision Number** 2



Physical state Solid

Odor Odorless

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

Specific treatment (see .? on this label) Specific treatment (see .? on this label) 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 Call a POISON CENTER or doctor if you feel unwell Take off immediately all contaminated clothing and wash it before reuse If skin irritation occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

#### Other information

Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.

#### 3. Composition/information on ingredients

#### Substance

Chemical name	CAS No	Weight-%
Cupric Sulfate, Anhydrous	7758-98-7	100

#### 4. First-aid measures

#### **Description of first aid measures**

General advice	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Get immediate medical advice/attention. 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. Do not rub affected area.
Skin contact	Get immediate medical advice/attention. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

	Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.		
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.		
Most important symptoms and effects, both acute and delayed			
Symptoms	May cause redness and tearing of the eyes. Burning sensation.		
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.		
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.		
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.		
Specific hazards arising from the chemical	No information available.		
Hazardous combustion products	If it is involved in a fire the following can be released:. copper oxides. Sulfur oxides.		
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. Evacuate personnel to safe areas.	
Other information	Refer to protective measures listed in Sections 7 and 8.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	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. Ensure adequate ventilation. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Store in a segregated and approved area.

## 8. Exposure controls/personal protection

Control parameters	
Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.
Appropriate engineering controls	
Engineering controls	Showers Eyewash stations Ventilation systems.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.
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	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## 9. Physical and chemical properties

Information on basic physical and chemical properties			
Physical state	Solid		
Appearance	Powder		
Color	Gray		
Odor	Odorless		
Odor threshold	No information available		
Property	<u>Values</u>		
рН	no data available		
Melting point / freezing point	590 °C / 1094 °F		
Boiling point / boiling range	no data available		
Flash point	no data available		
Evaporation rate	no data available		
Flammability (solid, gas)	no data available		
Flammability Limit in Air			
Upper flammability or explosive	No data available		
limits			
Lower flammability or explosive	No data available		

## Remarks • Method

None known None known None known None known None known None known

limits			
Vapor pressure	No data available	None known	
Vapor density	no data available	None known	
Relative density	3.6	None known	
Water solubility	Easily soluble in hot water	None known	
-	Soluble in cold water		
Solubility(ies)	Soluble in Methanol	None known	
	Insoluble in Ethanol		
Partition coefficient	No data available	None known	
Autoignition temperature	no data available	None known	
Decomposition temperature	650 - °C 1202 °F	None known	
Kinematic viscosity	no data available	None known	
Dynamic viscosity	No data available	None known	
Other information			
Explosive properties	No information available		
Oxidizing properties	No information available		
Softening point	No information available		
Molecular weight	159.60		
VOC Content (%)	No information available		
Liquid Density	No information available		
Bulk density	No information available		
10. Stability and reactivity			
	Nie information available		
Reactivity	No information available.		
Chemical stability	Stable under normal conditions		
Chemical Stability	Stable under normal conditions.		
Possibility of hazardous reactions	None under normal processing.		
Conditions to avoid	None known based on information supplied.		
Incompatible materials	Strong acids. Strong bases. Strong oxidizing agents.		
Hazardous decomposition products None known based on information supplied.			

## 11. Toxicological information

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.		
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). Toxic in contact with skin.		
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).		
Symptoms related to the physical, chemical and toxicological characteristics			
Symptoms	Redness. May cause redness and tearing of the eyes.		
Acute toxicity			
Numerical measures of toxicity			

#### Unknown acute toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Cupric Sulfate, Anhydrous 7758-98-7	= 300 mg/kg (Rat)	= 1000 mg/kg (Rabbit)	-	
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Skin corrosion/irritation	Classification based on da	Classification based on data available for ingredients. Irritating to skin.		
Serious eye damage/eye irritat	on Classification based on da	Classification based on data available for ingredients. Causes serious eye irritation.		
Respiratory or skin sensitization	No information available.	No information available.		
Germ cell mutagenicity	No information available.	No information available.		
Carcinogenicity	No information available.	No information available.		
Reproductive toxicity	No information available.	No information available.		
STOT - single exposure	No information available.			
STOT - repeated exposure	No information available.			
Target organ effects	liver, kidney, respiratory sy	ystem, Eyes, Skin.		
Aspiration hazard	No information available.			
Other adverse effects	No information available.			
Interactive effects	No information available.			

## 12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Cupric Sulfate, Anhydrous 7758-98-7	-	LC50: =0.1mg/L (96h, Oncorhynchus mykiss)	-	EC50: 0.0058 - 0.0073mg/L (48h, Daphnia magna)
Persistence and degradability No information available.				

Bioaccumulation

Inherently biodegradable.

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

DOT UN/ID no Proper shipping name Hazard class Special Provisions Special Provisions Marine Pollutant Technical Nam Description Emergency Response Guide Number	UN3288 Toxic solid, inorganic, n.o.s. 6.1 III IB8, IP3, T1, TP33 eCupric Sulfate, Anhydrous UN3288, Toxic solid, inorganic, n.o.s. (Cupric Sulfate, Anhydrous), 6.1, III, Marine pollutant 151
TDG UN/ID no. Proper shipping name Hazard class Packing Group Special Provisions Marine Pollutant Technical Nam Description	UN3288 Toxic solid, inorganic, n.o.s. 6.1 III 16 reCupric Sulfate, Anhydrous. UN3288, Toxic solid, inorganic, n.o.s. (Cupric Sulfate, Anhydrous), 6.1, III
MEX UN-No Proper Shipping Name Hazard class Special Provisions Packing Group Description	UN3288 Toxic solid, inorganic, n.o.s. 6.1 223, 274 III UN3288, Toxic solid, inorganic, n.o.s. (Cupric Sulfate, Anhydrous), 6.1, III
<u>ICAO (air)</u> UN/ID no. Hazard class Packing Group Special Provisions	UN3288 6.1 III A3, A5
IATA_ UN number Hazard Class Packing group Emergency Response Guide Number Special Provisions	UN3288 6.1 III 6L A3, A5
IMDG UN number Hazard Class Packing group EmS-No Special Provisions Marine Pollutant	UN3288 6.1 III F-A, S-A 223, 274 P
<u>RID</u> UN number Proper shipping name Hazard Class Packing group Classification code Special Provisions Description Labels	UN3288 TOXIC SOLID, INORGANIC, N.O.S. 6.1 III T5 274 UN3288, TOXIC SOLID, INORGANIC, N.O.S. (Cupric Sulfate, Anhydrous), 6.1, III, ENVIRONMENTALLY HAZARDOUS 6.1

UN number Proper shipping name Hazard Class Packing group Classification code Tunnel restriction code Special Provisions Description	UN3288 Toxic solid, inorganic, n.o.s. 6.1 III T5 (E) 274 UN3288, Toxic solid, inorganic, n.o.s. (Cupric Sulfate, Anhydrous), 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Labels	6.1
ADN UN/ID No Proper shipping name Hazard Class Packing Group Classification code Special Provisions Description Hazard label(s) Limited quantity (LQ) Equipment Requirements	UN3288 Toxic solid, inorganic, n.o.s. 6.1 III T5 274, 802 UN3288, Toxic solid, inorganic, n.o.s. (Cupric Sulfate, Anhydrous), 6.1, III, ENVIRONMENTALLY HAZARDOUS 6.1 5 kg PP, EP

### 15. Regulatory information

#### International Inventories

TSCA

Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	This product complies with ENCS:
IECSC	This product complies with China:
KECL	Complies
PICCS	Complies
AICS	All the constituents of this material are listed on the Australian Inventory of Chemical
Alco	Substances (AICS).

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
 VECE - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Cupric Sulfate, Anhydrous - 7758-98-7	1.0

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Cupric Sulfate, Anhydrous	10 lb final RQ	-
7758-98-7	4.54 kg final RQ	

#### **US State Regulations**

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Cupric Sulfate, Anhydrous 7758-98-7	sn 0549	Present	Environmental hazard

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. Other information

HMIS Health hazards Flammability 0 Physical hazards Personal protect	emical properties - 2 s 0 tion X			
	abbreviations and acronyms used in the s			
TWA Ceiling	<ul> <li>8: EXPOSURE CONTROLS/PERSONAL PR TWA (time-weighted average) Maximum limit value</li> </ul>	STEL	STEL (Short Term Exposure Limit)	
Key literature references and sources for data used to compile the SDS         Agency for Toxic Substances and Disease Registry (ATSDR)         U.S. Environmental Protection Agency ChemView Database         European Food Safety Authority (EFSA)         EPA (Environmental Protection Agency)         Acute Exposure Guideline Level(s) (AEGL(s))         U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act         U.S. Environmental Protection Agency High Production Volume Chemicals         Food Research Journal         Hazardous Substance Database         International Uniform Chemical Information Database (IUCLID)         Japan GHS Classification         Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)         NIOSH (National Institute for Occupational Safety and Health)         National Library of Medicine's ChemID Plus (NLM CIP)				

National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program Organization for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date Revision Note Disclaimer 21-March-2024 No information available.

# 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