



SAFETY DATA SHEET

Preparation Date: 03/11/2015

Revision Date: 8/13/2018

Revision Number: G5

1. IDENTIFICATION

Product identifier

Product code: CU110
Product Name: CUPRIC SULFATE, PENTAHYDRATE, POWDER, USP

Other means of identification

Synonyms: Blue vitriol; Copper (II) Sulfate Pentahydrate
CAS #: 7758-99-8
RTECS # GL8900000
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use: No information available.
Uses advised against No information available

Supplier: Spectrum Chemical Mfg. Corp
14422 South San Pedro St.
Gardena, CA 90248
(310) 516-8000

Order Online At: <https://www.spectrumchemical.com>
Emergency telephone number Chemtrec 1-800-424-9300
Contact Person: Martin LaBenz (West Coast)
Contact Person: Ibad Tirmiz (East Coast)

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

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

Label elements

Danger

Hazard statements

Toxic if swallowed
Causes skin irritation
Causes serious eye irritation

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**Hazards not otherwise classified (HNOC)**

Not Applicable

Other hazards

Very toxic to aquatic life with long lasting effects

Very toxic to aquatic life

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

Wear eye/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

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash it before reuse

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Copper Sulfate, Pentahydrate	7758-99-8	100

4. FIRST AID MEASURES**First aid measures****General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First aider needs to protect himself.

Skin Contact:

Wash off immediately with soap and plenty of water removing all contaminated clothing and

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shoes. Get medical attention. If skin irritation persists, call a physician.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. **WARNING!** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Toxic if swallowed.

Most important symptoms and effects, both acute and delayed

Symptoms

- Causes eye irritation
- Causes skin irritation
- May cause a greenish discoloration of the skin
- May cause discoloration of the cornea
- May cause ulceration of the cornea
- Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea
- Oral mucosa, vomitus, stools, and saliva may be stained blue or green following ingestion
- May cause metallic taste
- Abdominal pain
- May cause metabolic acidosis
- May cause methemoglobinemia
- May affect the liver
- Jaundice
- It may affect the kidneys
- May cause central nervous system effects
- May affect the cardiovascular system
- Hypotension
- Perforation of the nasal septum if inhaled in excessive quantities
- Irritating to respiratory system
- Coughing and wheezing

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: If it is involved in a fire the following can be released: Sulfur Oxides. copper oxides.

Specific hazards: No information available.

Special Protective Actions for Firefighters

Specific Methods:

No information available.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions:

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment

Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

Methods for cleaning up

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe vapors/dust. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/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.

Incompatible Materials:

Hydroxylamine
Acetylene
Hydrazine
Nitromethane
Strong reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Copper Sulfate, Pentahydrate	7758-99-8	None	1 mg/m ³ TWA (as Cu)	1 mg/m ³ TWA (as Cu)	None

Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Copper Sulfate, Pentahydrate	7758-99-8	None	None	None	None

Australia and Mexico

Components	CAS-No.	Australia	Mexico
Copper Sulfate, Pentahydrate	7758-99-8	None	None

Appropriate engineering controls

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles or Safety glasses with side-shields
Skin and body protection:	Chemical resistant apron Long sleeved clothing Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid	Appearance: Crystals. Granular. Powder.	Color: Light blue.
Odor: Odorless.	Taste Nauseating. Metallic.	Formula: CuSO ₄ •5H ₂ O
Molecular/Formula weight (g/mole): 249.69	Flammability: No information available	Flashpoint (°C/°F): No information available.
Flash Point Tested according to: Not available	Autoignition Temperature (°C/°F): No information available	Lower Explosion Limit (%): No information available
Upper Explosion Limit (%):		

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No information available	Melting point/range(°C/°F): 110°C/230°F	Decomposition temperature(°C/°F): No information available
Boiling point/range(°C/°F): 150°C/302°F	Bulk density: No information available	Density (g/cm3): No information available
Specific gravity: 2.28 @ 15.6°C	pH: No information available	Vapor pressure @ 20°C (kPa): No information available
Evaporation rate: No information available	Vapor density: No information available	VOC content (g/L): No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available	Viscosity: No information available
Miscibility: No information available	Solubility: Easily soluble in hot water Soluble in cold water Soluble in Methanol Insoluble in Ethanol It readily forms alkaline complexes at sufficiently high concentrations of amines or alkali cyanides Practically insoluble in most organic solvents	

10. STABILITY AND REACTIVITY

Reactivity

Anhydrous copper sulfate causes hydroxylamine to ignite and the hydrated salt is vigorously reduced
Copper salts and nitromethane spontaneously form explosive materials
Copper salts promote the decomposition of hydrazine
Dangerous acetylides may be formed from many copper salts. The copper acetylides formed in ammoniacal or caustic solutions with Cu(II) salts and acetylene are more explosive than those derived from cuprous Cu(I) salts

Chemical stability

Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Incompatible materials.

Incompatible Materials: Hydroxylamine
Acetylene
Hydrazine
Nitromethane
Strong reducing agents

Hazardous decomposition products: When heated to decomposition it emits toxic fumes. Sulfur oxides.

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Ingestion. Inhalation.

Acute Toxicity

Component Information

Copper Sulfate, Pentahydrate	
CAS-No.	7758-99-8

LD50/oral/rat = 960 mg/kg Oral LD50 Rat; 300 mg/kg Oral LD50 Rat; 462 mg/kg

LD50/oral/mouse = 43 mg/kg Oral LD50 Mouse

LD50/dermal/rabbit = > 8 g/kg Dermal LD50 Rabbit

LD50/dermal/rat = > 2 g/kg Dermal LD50 Rat

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No information available

Other LD50 or LC50 information = Lowest Lethal Dose (LDL)oral for human: 1088 mg/kg

Product Information

LD50/oral/rat =

VALUE- Acute Tox Oral = 300 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 43 mg/kg

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = > 2000 mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available

VALUE-Gas = No information available

VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available

VALUE - Gas = No information available

VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:

Causes skin irritation. May cause skin burns, itching allergic dermatitis, eczema, and greenish discoloration of the skin and hair.

Eye Contact:

Causes serious eye irritation. May cause burns. May cause conjunctivitis. May cause corneal opacity. May cause corneal discoloration, ulceration.

Inhalation

Causes respiratory tract (nose, throat, lung) irritation with coughing and wheezing. May cause ulceration and perforation of the nasal septum if inhaled in excessive quantities. Burning copper sulfate may result in irritating and poisonous gases which may irritate the respiratory tract and lungs, and may cause metal fume fever which is characterized by flu-like symptoms such as fever, chills, muscle aches.

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Ingestion

Toxic if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, hypermotility, diarrhea, metallic taste, burning sensation in the stomach or epigastrium, abdominal pain, and possible gastrointestinal tract bleeding. May affect metabolism (metabolic acidosis, anorexia, weight loss), liver (liver damage, jaundice), blood (rarely Methemoglobinemia, hemolytic anemia), urinary system (kidney damage, hematuria, hemoglobinuria, albuminuria), behavior/central nervous system (CNS depression, headache, seizures, somnolence, tremor, psychosis, muscle weakness, coma), cardiovascular system (lowering of blood pressure, dysrhythmia). Oral mucosa, vomitus, stools, and saliva may be stained blue or green following ingestion. Aspiration pneumonia may develop following emesis (vomiting).

Aspiration hazard

No information available.

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

Repeated or prolonged skin contact may cause thickening of the skin. Skin: Prolonged or repeated skin contact may cause allergic skin reaction. Chronic exposure may affect the liver and kidneys. Prolonged or repeated ingestion may cause nausea, vomiting, diarrhea.

Sensitization:

No information available.

Mutagenic Effects:

Animal experiments showed mutagenic effects

Carcinogenic effects:

Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Copper Sulfate, Pentahydrate	7758-99-8	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity

No data is available

Reproductive Effects:

No information available

Developmental Effects:

No information available

Teratogenic Effects:

No information available

Specific Target Organ Toxicity**STOT - single exposure**

No information available.

STOT - repeated exposure

No information available.

Target Organs:

No information available.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Ecotoxicity effects: Aquatic environment.

Copper Sulfate, Pentahydrate - 7758-99-8

Freshwater Fish Species Data: 0.66 - 1.15 mg/L LC50 *Lepomis macrochirus* 96 h semi-static 1 0.96 - 1.8 mg/L LC50 *Lepomis macrochirus* 96 h static 1 0.1478 - 0.165 mg/L LC50 *Oncorhynchus mykiss* 96 h flow-through 1 0.09 - 0.19 mg/L LC50 *Oncorhynchus mykiss* 96 h static 1 0.6752 mg/L LC50 *Pimephales promelas* 96 h static 1

Water Flea Data: 0.147 - 0.227 mg/L EC50 *Daphnia magna* 48 h

Persistence and degradability: If released to soil, copper sulfate may leach to groundwater, be partly oxidized, or bind to humic materials, clay, or hydrous of iron and manganese. In water, it will bind to carbonates as well as humic materials, clay and hydrous oxides of iron and manganese. Copper is accumulated by plants and animals, but it does not appear to biomagnify from plants to animals. This lack of biomagnification appears common with heavy metals. In air, copper aerosols (in general) have a residence time of 2 to 10 days in an unpolluted atmosphere and 0.1 to >4 in a polluted, urban areas.

Bioaccumulative potential: No information available.

Mobility: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Copper Sulfate, Pentahydrate	7758-99-8	None	None	None	None

14. TRANSPORT INFORMATION

DOT

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (Cupric Sulfate)
Hazard Class: 9
Subsidiary Class No information available
Packing group: III
Emergency Response Guide Number No information available
Marine Pollutant Marine Pollutant
DOT RQ (lbs): No information available
Special Provisions No Information available
Symbol(s): [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.
Description: UN3077, Environmentally hazardous substance, solid, n.o.s. ,9,PG III, Marine Pollutant

TDG (Canada)

UN-No: UN3077

Product code: CU110

Product name: CUPRIC SULFATE,
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Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant No Information available
Description: UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, PG III, Marine Pollutant

ADR

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Packing Group: III
Subsidiary Risk: No information available
Description: UN3077 Environmentally hazardous substance, solid, n.o.s., 9, III

IMO / IMDG

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Marine Pollutant Marine Pollutant
EMS: F-A

RID

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: UN3077 Environmentally hazardous substance, solid, n.o.s., 9, III

ICAO

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
Description: UN3077, Environmentally hazardous substance, solid, n.o.s., 9, PG III

IATA

UN-No: UN3077
Proper Shipping Name: Environmentally hazardous substance, solid, n.o.s. (copper sulfate)
Hazard Class: 9
Subsidiary Risk: No information available
Packing Group: III
ERG Code: 9L
Special Provisions No information available
Description: UN3077, Environmentally hazardous substance, solid, n.o.s., 9, PG III

15. REGULATORY INFORMATION

International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Copper Sulfate,	7758-99-8	Not Listed	Not present	Present	Not present	Present	Present	Not present

Pentahydrate								
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U.S. Regulations

Copper Sulfate, Pentahydrate

New Jersey RTK Hazardous Substance List: sn 2215 (copper compounds)

New Jersey (EHS) List: sn 2215 500 lb. TPQ (copper compounds)

New Jersey - Discharge Prevention - List of Hazardous Substances: Present (copper compounds)

Pennsylvania RTK: Environmental Hazard (copper compounds)

Pennsylvania RTK - Environmental Hazard List Present (copper compounds)

California Directors List of Hazardous Substances: Present (copper compounds)

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1261

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Copper Sulfate, Pentahydrate	7758-99-8	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Copper Sulfate, Pentahydrate	7758-99-8	None	None	None	Copper compounds	1% de minimis

U.S. TSCA

Components	CAS-No.	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Copper Sulfate, Pentahydrate	7758-99-8	Not Applicable	Not Applicable

Canada

WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component

Copper Sulfate, Pentahydrate
7758-99-8 (100)

WHMIS 2015 Hazard Classification

Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;
Serious Eye Damage/Eye Irritation - Category 2: H319 Causes serious eye irritation.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

WHMIS 1988 Hazard Class

D2B Toxic materials

Components

Copper Sulfate, Pentahydrate

WHMIS 1988

D2B

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Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
Copper Sulfate, Pentahydrate	7758-99-8	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Copper Sulfate, Pentahydrate	7758-99-8	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Copper Sulfate, Pentahydrate	7758-99-8	Not listed

EU Classification**EU GHS - SV - CLP 1272/2008**

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Copper Sulfate, Pentahydrate	7758-99-8	Acute toxicity - Oral - Acute Tox. 4: H302 Harmful if swallowed.; Serious Eye Damage/Eye Irritation - Eye Dam. 1: H318 Causes serious eye damage.; Hazardous to aquatic environment - acute hazard - Aquatic Acute 1: H400 Very toxic to aquatic life. (M Factor: 10); Hazardous to aquatic environment - chronic hazard - Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects. (M Factor: 10)029-023-00-4

EU - CLP (1272/2008)**R-phrases(s)**

R22 - Harmful if swallowed.

R50 - Very toxic to aquatic organisms.

R53 - May cause long-term adverse effects in the aquatic environment.

R36/38 - Irritating to eyes and skin.

S -phrase(s)

S22 - Do not breathe dust.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/safety data sheets.

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Copper Sulfate, Pentahydrate	7758-99-8	R22 R50 R53 R36/38	No information	S22 S60 S61

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xn - Harmful.

Xi - Irritant.

N - Dangerous for the environment.

Xn**Xi****N**

16. OTHER INFORMATION

Preparation Date: 03/11/2015
Revision Date: 8/13/2018
Prepared by: Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet