

# SAFETY DATA SHEET (SDS)


## Copper (II) sulphate, 0.1M

Issue date: 27-07-2020

### Section 1: Product Identifier and Chemical Identity

Product Identifier	
Product Name:	Copper (II) sulphate 0.1M
Product Codes:	MC91.10, MC92.10
Other means of identification:	
Chemical formula:	CuSO <sub>4(aq)</sub>
Recommended use of the chemical and restrictions on use	
Recommended Use:	For laboratory use only.
Suppliers name, address and phone number	
Suppliers Name:	Southern Biological
Suppliers ABN:	94 630 703 810
Suppliers Address:	1/44 Rushdale Street Knoxfield Victoria 3180 Australia
Suppliers Phone No.:	1300 138 561
Suppliers Fax No.:	+613 9753 3896
Emergency Phone number (BH)	1300 138 561

### Section 2: Hazard Identification

Classification of the Hazardous Chemical	
Hazard Category	Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Oral Category 4
Label elements	
Hazard Pictograms:	
Signal Word:	Warning
Hazard Statements:	Causes mild skin irritation Toxic to aquatic life with long lasting effects May irritate skin and eyes. Not recommended for use by K-2 students; teacher demonstration only.
Precautionary Statements:	<b>Prevention</b> Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not ingest.  <b>Response</b>

	<p>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Skin</p> <p>IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.</p> <p>IF SWALLOWED: call a poison centre or doctor if you feel unwell.</p>
Other Hazards	
Results of PBT and vPvB assessment:	<p>PBT: Not applicable</p> <p>VPvB: Not applicable</p>

### Section 3: Composition/information on ingredients

Ingredients			
Name	CAS	Proportion	Hazard Class
Copper (II) sulphate, pentahydrate	7758-99-8	2.5%	Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Oral Category 4
Water	7732-18-5	97.5%	None

### Section 4: First Aid Measures

General Information	
After Inhalation:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms; Call a doctor.
After skin contact:	Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: get medical advice/ attention.
After eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, consult a doctor.
After swallowing:	Rinse mouth. Seek medical advice and show container, label or SDS.
Information for doctor:	
Most important symptoms and effects both acute and delayed:	Treat symptomatically.
Indications of any immediate medical attention and special treatment needed	No further relevant information available.

### Section 5: Firefighting measures

Extinguishing media	
Suitable extinguishing agents:	Substance is non-flammable; use most appropriate agent for surrounding fire.
Special hazards arising for the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.

Advice for firefighters	
Protective equipment:	Do not enter the fire area without proper protective equipment including respiratory equipment.

## Section 6: Accidental release measures

General Information	
Personal precautions, protective equipment and emergency procedures:	Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Isolate area. Ventilate the contaminated area.
Environmental precautions:	Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if spill to sewers or public waters. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain.
Methods and material for containment and cleaning up:	Dispose of contaminating material as waste according to item 13. Ensure adequate ventilation.
Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on protective equipment. See Section 13 for disposal information.

## Section 7: Handling and Storage

General Information	
Precautions for safe handling:	Ensure good ventilation/exhaustion at the workplace. Do not eat drink or smoke when using this product. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.
Information about fire – and explosion protection:	No special measures required.
Conditions for safe storage, including any incompatibilities.	
Storage:	Store in cool dry out of direct sunlight and incompatible materials. Keep containers closed when not in use in a cool, well-ventilated place. Store in suitably labelled containers. Store locked up.
Requirements to be met by storerooms and receptacles:	No special requirements.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep container tightly sealed. Keep out of direct sunlight.
Specific end use(s):	No further relevant information available.

## Section 8: Exposure controls/personal protection.

General information	
Additional information about design of technical facilities:	No further data: see section 7
Control parameters:	
Ingredients with limit values that require monitoring at the workplace: not required	
Exposure Controls:	
General protective and hygienic measures:	Use only in systems, processes and procedures in which effective ventilation has been provided. Keep away from foodstuffs, beverages and food. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with eyes. Keep eyewash fountain nearby
Respiratory protection:	No data available
Clothing / Foot-wear and equipment	No special requirements.
Protection of hands:	PVC or rubber gloves
Eye protection:	Tightly sealed goggles
Skin protection:	Laboratory Coat

## Section 9: Physical and chemical properties

Appearance:	
Form:	Liquid
Colour:	Blue
Odour:	No data available
Odour Threshold:	No data available
pH value:	No data available
Change in Condition:	
Melting point/Melting range:	No data available
Boiling point/Boiling range:	No data available
Flash point:	No data available
Flammability (solid / gaseous)	No data available
Ignition Temperature	
Decomposition temperature:	No data available
Self-igniting:	No data available
Danger of explosion:	No data available
Explosion limits	

Lower:	No data available
Upper:	No data available
Vapour pressure:	No data available
Density:	No data available
<b>General Info</b>	
Relative density:	No data available
Vapour density:	No data available
Evaporation rate:	No data available
Solubility in / Miscibility with water:	Miscible
Partition coefficient (n-octanol/water):	No data available
Viscosity:	No data available
Other information:	No further relevant information available

## Section 10: Stability and reactivity

<b>Reactivity</b>	
General	No further relevant information available.
<b>Chemical Stability</b>	
Thermal decomposition / conditions to be avoided:	Stable under normal conditions
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	None known
Incompatible materials:	Hydroxylamine, hypobromite, strong reducing agents, magnesium
Hazardous decomposition products:	Sulphur containing gases, copper compounds

## Section 11: Toxicological information

Information on toxicological effects	
General	May irritate skin and eyes.
Primary irritant effect:	
Inhalation, ingestion, and skin contact.	No data available
Possibility of hazardous reactions:	Not classified
Conditions to avoid:	Not classified
Chronic Toxicity:	
General	Not classified

## Section 12. Ecological information

Toxicity	
Aquatic toxicity:	Toxic to aquatic life with long lasting effects
Persistence and degradability:	No data available
Behaviour in environmental systems	
Bio-accumulative potential:	No further relevant information available.
Mobility in soil:	No further relevant information available.
Additional ecological information	
Results of PBT and vPvB assessment	PBT: No data vPvB: No data
Other adverse effects:	No further relevant information available.

## Section 13. Ecological information

Waste treatment methods	
Recommendation	Prevent this material from entering waterways, drains and sewers. Comply with official regulations.
Uncleaned packaging:	
Recommendation:	Disposal must be made according to official regulations.
Recommended cleansing agents:	Water, if necessary, together with cleansing agents.

## Section 14. Transport information

General	UN3082 Environmentally Hazardous Substances, Liquid, N.O.S. (Copper II Sulfate) Class 9 P.G. III R.Q 4.54 kg
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## Section 15. Regulatory Information

Safety health and environmental regulations/legislation specific for the substance or mixture

Australian Inventory of Chemical Substances:	Substances are listed.
Standard for the Uniform Scheduling of Medicines and Poisons	S6
GHS label elements	None
Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

## Section 16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.