

SAFETY DATA SHEET

COPPER SULPHATE

mcs100

1. Identification of the substance/preparation and of the company/undertaking

Product name : COPPER SULPHATE Supplier : Brenntag UK and Ireland
 Albion House
 Rawdon Park
 Green Lane
 Yeadon
 Leeds
 LS19 7XX

Chemical product name : COPPER SULPHATE
 Synonyms : COPPER SULPHATE

EMERGENCY ONLY TELEPHONE NUMBER : (N.C.E.C. CULHAM) 01865 407333 Telephone No. : (0113) 3879200
 Fax No. : (0113) 3879280

Formula : CuSO4.H2On (n=0, 1,5) Molecular Mass : 159.6 + n(18)

2. Composition/information on ingredients

Substance/Preparation : Substance

Chemical name*	CAS No.	%	EC Number	Symbol	R-Phrases
1) COPPER SULPHATE	7758-98-7/1	100	231-847-6	Xn, N	R22, R36/38, R50/53

* Occupational Exposure Limit(s), if available, are listed in Section 8

Composition : SOLID COPPER SULPHATE .
 SPECIFICATION WILL BE GIVEN ON REQUEST

CAS No. : 7758-98-7/1

EINECS Number : 231-847-6

3. Hazards identification

Human health hazards : Harmful if swallowed. Irritating to eyes and skin. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Environmental hazards : Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

4. First-aid measures

First-Aid measures

Inhalation : Remove from exposure. Obtain medical attention. Keep warm and at rest. If there is difficulty in breathing, give oxygen.

Ingestion : Wash out mouth with water. Induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. Never administer anything by mouth if a victim is losing consciousness, is unconscious or is convulsing. Obtain medical attention urgently.

Skin contact : Wash skin with water. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

Eye Contact : Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Effects and symptoms

Skin contact : Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Eye Contact : Hazardous in case of eye contact (irritant).

5. Fire-fighting measures

Extinguishing Media

Flammable : Not combustible. Select extinguishing agent appropriate to other materials involved.

Hazardous Combustion Products : SULPHUR DIOXIDE

This product may give rise to hazardous fumes in a fire

Hazardous fumes produced in a fire : Heating may produce oxides of sulphur.
 Reacts with acids generating oxides of sulphur

Special fire-fighting procedures : Fire fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.
 Wear full protective clothing and self-contained breathing apparatus.

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6. Accidental release measures

Personal Precautions	: Wear appropriate protective clothing. Wear respiratory protection.
Environmental precautions and cleanup methods	: Sweep up into suitable containers for recovery or disposal. Avoid creating a dust. Finally flush area with plenty of water. : Try to prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. Handling and storage

Handling	: Use in well ventilated area. : Avoid contact with eyes, skin and clothing. : Avoid creating a dust. Avoid inhaling dust. : Emergency shower and eye wash facilities should be readily available. : Keep container tightly closed when not in use.
Storage	: Storage area should be: cool, dry, under cover, well ventilated. : Avoid storing sacks in a large stack to prevent the product from caking.
<u>Packaging materials</u>	
Recommended use	: Use original container.

8. Exposure controls/personal protection

Engineering measures	: Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions. If engineering controls and work practices are not effective in preventing or controlling exposure, then suitable personal protective equipment, which is known to perform satisfactorily, should be used.
Hygiene measures	: Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.
Workplace Exposure Limits	: Not available.
<u>Personal protective equipment</u>	
Respiratory system	: Dust respirator if conditions are dusty.
Skin and body	: Wear: dust-proof overall with hood. PVC or rubber boots.
Hands	: PVC or rubber gloves.
Eyes	: Chemical goggles.

9. Physical and chemical properties

Physical state	: Solid.
Colour	: Anhydrous: Off-white. : Monohydrate: Green. : Pentahydrate: Blue.
Odour	: Odourless.
Boiling point	: Decomposes
Melting point	: 250
Density	: 2280. (bulk)
Solubility	: Completely soluble.
pH	: 3.5 (10% solution)
Flash point	: Not available.

10. Stability and reactivity

Stability	: The product is stable.
Materials to avoid	: Acids. Hydroxylamine. Magnesium.
Hazardous decomposition products	: Heating may produce: oxides of sulphur. : Reacts with acids generating: oxides of sulphur.

11. Toxicological information

Local effects

Skin irritation	: Hazardous in case of skin contact (irritant).
Eye irritation	: Hazardous in case of eye contact (irritant).
Acute toxicity	: Harmful by ingestion. Oral LD50 (rat) 1000mg/kg.

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12. Environmental Information

Ecotoxicity : The product is rated as highly toxic to aquatic species.

13. Disposal considerations

Methods of disposal : Waste of residues : Dispose of in accordance with all applicable local and national regulations.

Waste Classification : Not applicable.

14. Transport information

International transport regulations

UN : UN number Non hazardous for transport.

15. Regulatory information

EU Regulations

Hazard symbol(s) :



Classification : Harmful, Dangerous for the environment

Risk Phrases : R22 Harmful if swallowed.
R36/38 Irritating to eyes and skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases : S22 Do not breathe dust.

Contains : - COPPER SULPHATE

Product Use : Classification and labelling have been performed according to EU directives 67/548/EEC, 88/379/EEC, including amendments and the intended use.
- Consumer applications.

16. Other information

HISTORY

Date of printing : 18/02/2009.

Date of issue : 17/04/2001.

Date of previous issue : No Previous Validation.

Version : 1

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Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Version 1

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