

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier****Product name:** COPPER (II) SULFATE ANHYDROUS**CAS number:** 7758-98-7**Product code:** B8A67350**Synonyms:** CUPRIC SULFATE**1.2. Relevant identified uses of the substance or mixture and uses advised against****1.3. Details of the supplier of the safety data sheet****Company name:** PHILIP HARRIS

2 Gregory Street

Hyde

Cheshire

SK14 4HR

United Kingdom

Tel: +44 (0)845 1200 506**Fax:** +44 (0)161 367 2140**Email:** enquiries@philipharris.co.uk**1.4. Emergency telephone number****Emergency tel:** +44 (0)845 1200 506**Section 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Acute toxicity, Oral (Category 4) H302,

Skin irritation (Category 2) H315,

Eye irritation (Category 2) H319,

Short term (acute) aquatic hazard (Category 1), H400

Long-term (chronic aquatic hazard (Category 1) H410

2.2. Label elements**Labelling according to Regulation (EC) No 1272/2008**

Pictogram



Signal word

warning

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Hazard statement(s) :
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
H410 Very toxic to aquatic life with long lasting effect

Precautionary statement(s):
P264 Wash skin thoroughly after handling
P273 Avoid release into the environment
P270 Do not eat, drink or smoke when using this product
P301+P312 IF SWALLOWED: Call a POISON CENTRE/ doctor if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of water
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: COPPER (II) SULFATE ANHYDROUS

Synonyms : CUPRIC SULFATE
Formula : CuSO_4
Molecular weight: 159.61 g/mol
CAS No : 7758-98-7
EC-No : 231-847-6
Index No : 029-004-00-0

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Take victim immediately to hospital.

Eye contact: Bathe the eye with running water for 15 minutes. Protect Uninjured eye. Remove contact lenses, if present and easy to do. Consult a doctor.

Ingestion: Rinse mouth thoroughly with water. Immediately call the POISON CENTRE or a doctor.

Inhalation: If breathing is irregular or stopped, administer artificial respiration. Consult a doctor.

[cont...]

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Inhalation: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In case of fire may be liberated: Sulphur Oxides Copper Oxides

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid dust formation. Avoid contact with skin, eyes & clothes. Avoid inhalation of dust. Wear protective equipment. Keep Unprotected persons away. Ensure adequate ventilation. Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

6.4. Reference to other sections

Reference to other sections: Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at places where dust is formed.

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7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed in a dry and well ventilated place. Store in a cool, dry place.
Air sensitive. Hygroscopic Handle and store under inert gas.

7.3. Specific end use(s)

Specific end use(s): Apart from uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridge as a backup to engineering controls.

Hand protection: For long term and short term hand contact wear nitrile rubber gloves, 0.11mm thick with a breakthrough time of 480mins.

Eye protection: Safety glasses. Face-shield. Face shield and safety glasses. Use equipment for eye protection test and approved under appropriate government statements such as NIOSH (US) or EN 166(EU)

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State : Powder

Colour: Light grey

Odour: No data available

Evaporation rate: No data available

Oxidising: No data available

Solubility in water: No data available

Also soluble in: No data available.

Viscosity: No data available

Viscosity test method: No data available.

Melting point/range°C: 200°C - dec

Relative density: 3.603 g/cm³

Vapour pressure: 9.7hPa at 25°C

pH: 3.7 - 4.5

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9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Exposure to moisture.

10.5. Incompatible materials

Materials to avoid: Powdered metals, reacts violently with hydroxylamine,
Magnesium.

10.6. Hazardous decomposition products

Haz. decomp. products: In the event of fire see section 5.

Section 11: Toxicological information

11.1. Information on toxicological effects

Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Inhalation: Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Delayed / immediate effects: No data available.

Section 12: Ecological information

12.1. Toxicity

[cont...]

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Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	0.024	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of as unused product.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

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14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H410: Very toxic to aquatic life with long lasting effects.

H413: May cause long lasting harmful effects to aquatic life.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.