

Safety Data Sheet	Issue no.: 8	Issue Date: 17.09.25	Page 1 of 5	SDS 4
COPPER (II) NITRATE 0.3% (W/V) SOLUTION				

Section 1 – Chemical Product and Company Identification

1.1. Product identifier:

Copper (II) nitrate 0.3% (w/v) solution.

1.2. Relevant identified uses of the substance or mixture and uses advised against:

To be used as a sample preservative for analytical testing.

1.3. Details of the supplier of the safety data sheet:



ALS Laboratories (UK) Limited

Torrington Avenue,
Coventry, CV4 9GU

1.4. Emergency telephone number

T: +44 (0)24 7642 1213

F: +44 (0)24 7685 6575

Section 2 – Hazards Identification

2.1. Classification of the substance or mixture

Acute toxicity, Oral (Category 4), H302

Skin irritation (Category 2), H315

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

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

2.2. Label elements

Pictograms



Signal word: Warning

Hazard statement(s)

H302 Harmful if swallowed.

H315 Causes skin irritation.

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H318 Causes serious eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s):

P280 Wear eye protection/ face protection.

P305 + P351 + P338 +P310 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Supplemental Hazard Statements: None

Reduced labelling for packages where contents do not exceed 125ml.

Pictograms



Signal word: Warning

2.3. Other hazards - none

Section 3 – Composition, Information on Ingredients

3.2. Mixtures

Component	Hazards	Concentration
Copper (II) nitrate.	H302, H315, H318, H410.	0.3%
Water	None.	99.7%

Section 4 – First Aid Measures

4.1. Description of first aid measures

Call a doctor and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a doctor or poison control at once.

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

The most important known symptoms and effects are described in the labelling (see section

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2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed
No data available.

Section 5 – Fire Fighting Measures

5.1. Extinguishing media: No data available.

5.2. Special hazards arising from the substance or mixture: No data available.

5.3. Advice for firefighters: Nonflammable, noncombustible solution.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures: Protect skin and eyes from spillages. Restrict unprotected personnel from the area.

6.2. Environmental precautions: No special measures necessary.

6.3. Methods and materials for cleaning up: Use a suitable absorbent. Collect into a container, close lid.

6.4. Reference to other sections. See suitable PPE in section 8.

Section 7 – Handling and Storage

7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Avoid contact with eyes, skin, and clothing. Wear chemical splash goggles and chemical-resistant gloves.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8 – Exposure Controls, Personal Protection

8.1. Control parameters: This substance has no WEL under EH40.

8.2. Exposure controls: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling this product. Eyes/face - Wear appropriate safety glasses.

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Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Clear blue solution. Odourless. Water-soluble.

9.2. Other information

Section 10 – Stability and Reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

Hazardous Polymerization: Has not been reported.

10.4. Conditions to avoid

Avoid contact with strong reducing agents.

10.5. Incompatible materials

Avoid contact with strong reducing agents.

10.6. Hazardous decomposition products

No data available.

Section 11 – Toxicological Information

11.1. Information on toxicological effects:

ORL-RAT LD50: 940 mg/kg as copper nitrate

Section 12 – Ecological Information

12.1. Toxicity: No data available.

12.2. Persistence and degradability: No data available.

12.3. Bioaccumulative potential: No data available.

12.4. Mobility in soil: No data available.

12.5. Results of PBT and vPvB assessment: No data available.

12.6. Other adverse effects: No data available.

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Section 13 – Disposal Considerations

13.1. Waste treatment methods

Reuse or reprocess if possible. Do not dump into any sewers, on the ground, or into any body of water. Any disposal practice must be in compliance with regulations (contact environmental agency for specific rules). Waste characterisation and compliance with applicable laws are the responsibility of the waste generator.

Section 14 – Transport Information

14.1. UN number: Not regulated.

14.2. UN proper shipping name: Not regulated.

14.3. Transport hazard class(es): Not regulated.

14.4. Packing group: Not regulated.

14.5. Environmental hazards: Not regulated.

14.6. Special precautions for user: Not regulated.

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
 CDG (Carriage of Dangerous Goods) Regulations
 CLP (Chemicals, Labelling and Packaging) Regulations.
 CoSHH (Control of Substances Hazardous to Health) regulations
 Hazardous Waste Regulations
 PPE Regulations
 Workplace Exposure Limits EH40

15.2. Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Section 16 – Other Information

16.1 Other information:

Written by Paul Talbot.

16.2 Date of the latest revision of the SDS:

See document header.