

SAFETY DATA SHEET

Ferrous Sulphate Heptahydrate

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Issued: 23/06/2026
Revision No: 3

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Trade name: Ferrous Sulphate Heptahydrate (Copperas)
Other names / Synonyms: Copperas, Iron(II) Sulphate, Ferrous Sulphate, Heptahydrate
REACH registration number: 01-2119513203-57-XXXX

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

Relevant identified uses: None known. Restricted to professional users.
Uses advised against: None known.

Details of the supplier of the safety data sheet:

Company name: Nexchem Ltd
 Unit 3 Barshaw Park
 Leycroft Road
 Leicester
 LE4 1ET
 Tel: 0116 2311130
 24/7 Emergency Tel: 0800 246 1274
 Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

Acute Tox. 4; H302: Harmful if swallowed.
Skin Irrit. 2; H315: Causes skin irritation.
Eye Irrit. 2; H319: Causes serious eye irritation.

Label elements

Hazard pictogram(s):



Signal word: Warning

Hazard statement(s): Harmful if swallowed. (H302)
 Causes skin irritation. (H315)
 Causes serious eye irritation. (H319)

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Precautionary statement(s):

Prevention:

Wash hands thoroughly after handling. (P264)
Wear face protection/protective gloves/protective clothing. (P280)

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If eye irritation persists: Get medical advice/attention. (P337+P313)

Disposal:

Dispose of contents/container in accordance with local regulation (P501)

Other hazards:

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Not applicable. This product is a mixture.

Mixtures:

Product/substance	Identifiers	% w/w	Classification
Ferrous sulphate heptahydrate	CAS No.: 7782-63-0 EC No.: 616-510-7	80 – 100%	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319

4. FIRST AID MEASURES

Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department - take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

IF ON SKIN: Wash with plenty of water and soap. Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion:

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Burns:

Not applicable.

Most important symptoms and effects, both acute and delayed:

Irritation effects:

This product contains substances which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Indication of any immediate medical attention and special treatment needed:

If eye irritation persists:

Get medical advice/attention. Bring this safety data sheet or the label.

[cont...]

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5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable: Waterjets should not be used, since they can spread the fire.

Special hazards arising from the substance or mixture:

Fire will result in dense smoke. Exposure to combustion products may harm your health.
Closed containers exposed to fire should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

Advice for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Avoid direct contact with spilled substances. Contaminated areas may be slippery.

Environmental precautions: Avoid discharge to lakes, streams, sewers, etc. Keep unauthorised persons away from the spill.

Methods and material for containment and cleaning up:

Collect spills carefully. Moist the material with water in order to prevent the formation and propagation of dust. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

Reference to other sections: See section 13 "Disposal considerations" on handling of waste. See section 8 "Exposure controls/personal protection" for protective measures.

7. HANDLING AND STORAGE

Precautions for safe handling: Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 for information on personal protection.

Conditions for safe storage, including any incompatibilities:

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Powder trickling out onto the floor or onto other containers must be prevented.

Recommended storage material: Keep only in original packaging.

Storage temperature: Dry, cool and well ventilated. Avoid Dust. Tightly closed. Dry.

Incompatible materials: Alkali, Water, Aluminium, Copper, Iron Salts, Strong oxidizing agents.

Specific end use(s): This product should only be used for applications quoted in section 1.2.

[cont...]

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:	No substances are listed in the national list of substances with an occupational exposure limit. No DNEL or PNEC data available.
Exposure controls:	Apply general control to prevent unnecessary exposure.
General recommendations:	Smoking, drinking and consumption of food is not allowed in the work area.
Appropriate technical measures:	Apply standard precautions during use of the product. Avoid inhalation of gas or dust. Airborne gas and dust concentrations must be kept at a minimum. Provide efficient mechanical ventilation.
Hygiene measures:	Take off contaminated clothing and wash it before reuse.
Individual protection measures, such as personal protective equipment:	
Generally:	Use only UKCA marked protective equipment.
Respiratory Equipment:	Combination filter A2B2E2K1-P2 (Brown/Gray/Yellow/Green/White), Class 1/2. Standard EN14387.
Skin protection:	Chemical suit, PVC (Type R).
Hand protection:	Rubber or plastic gloves.
Eye protection:	Face shield (EN166) or Chemical splash goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state:	Powder
Colour:	Greenish to Brown
Odour:	Acidic
pH in solution:	2.5-3.5 (10%)
Density:	1000 kg/m ³

10. STABILITY AND REACTIVITY

Reactivity:	No data available.
Chemical stability:	Stable under conditions noted in section 7.
Possibility of hazardous reactions:	None known.
Conditions to avoid:	None known.
Incompatible materials:	Alkali, Water, Aluminium, Copper, Iron Salts, Strong oxidising agents.
Hazardous decomposition products:	The product is not degraded when used as specified in section 1.

[cont...]

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11. TOXICOLOGICAL INFORMATION

Information on hazard classes:

Acute toxicity: Harmful if swallowed.

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Sensitisation, Mutagenicity, Carcinogenicity, Reproductive toxicity: Based on available data, classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity: No data available.

Persistence and degradability: Classification criteria not met.

Bioaccumulative potential: Classification criteria not met.

Mobility in soil: No data available.

PBT and vPvB assessment: Does not fulfil criteria.

Endocrine disrupting properties: None known.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Product is covered by the regulations on hazardous waste.

HP Codes: HP 4 (Irritant), HP 6 (Acute toxicity).

Disposal: Dispose of contents/container to an approved waste disposal plant in accordance with local regulations.

14. TRANSPORT INFORMATION

Not dangerous goods according to ADR, IATA and IMDG.

15. REGULATORY INFORMATION

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

Restrictions for application: Restricted to professional users.

Regulations: Regulation (EU) No 1357/2014 (Waste), Regulation (EC) No 1272/2008 (CLP), Regulation (EC) No 1907/2006 (REACH).

Chemical safety assessment: No.

Note: The regulatory information given above only indicates the principal regulations specifically Applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions. [cont...]

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16. OTHER INFORMATION

Full text of H-phrases mentioned in section 3:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.