



RECH CHEMICAL CO. LTD

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Material Safety Data Sheet

FERROUS SULFATE MONOHYDRATE

1.IDENTIFICATION

Ingredient	Formula	CAS No.
IRON SULFATE MONOHYDRATE	FeSO ₄ .H ₂ O	17375-41-6

Synonyms FERROUS SULPHATE MONOHYDRATE, FES04.H20, IRON SULFATE.

Appearance GREEN OR YELLOW/BROWN CRYSTALS OR GRANULES

Odour ODOURLESS

Poison Sched None Allocated

Hazchem None Allocated

UN No. None Allocated

D.G Class None Allocated

Pkg Group None Allocated

EPG None Allocated

Sub/Tert Risk None Allocated

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2.HEALTH HAZARDS

Summary

Moderate toxicity - irritant. Use safe work practices to avoid eye - skin contact and accidental hand to mouth transfer. Toxic by ingestion, although fatal poisonings in adults are rare.

Eye Irritant. Contact may result in lacrimation, irritation, pain, redness and conjunctivitis. Prolonged contact – corneal burns and possible permanent damage.

Inhalation Low irritant. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

Skin Irritant. Prolonged contact may result in irritation, itching and possible skin rash.

Ingestion Moderate toxicity. Ingestion of large quantities may cause vomiting, acidosis, bloody diarrhoea and shock. In some cases, necrosis and haemorrhage of the gastrointestinal tract, liver damage and death may occur. Scarring of the gastrointestinal tract may occur in non-fatal cases.

3.PRECAUTIONS

Flammability Non flammable. No fire or explosion hazard exists.

Reactivity Incompatible with oxidising agents (eg. hypochlorites, peroxides) and acids (eg. sulfuric acid). Corrosive to some metals. May cause staining.

Ventilation Do not inhale dusts. Use in well ventilated areas - open doors and windows. In poorly ventilated areas, mechanical extraction ventilation at source is recommended. Maintain dust levels below the recommended exposure standard.

4.PERSONAL PROTECTIVE EQUIPMENT

PPE Wear dust-proof goggles and PVC or rubber gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Class P1 (Particulate) Respirator.

5.EMERGENCY

Spillage If spilt, collect and reuse where possible. Wear dust-proof goggles and PVC/rubber gloves. Where heavy contamination is possible or where an inhalation risk exists, wear a Class P1 (Particulate) respirator and coveralls. Absorb with moist sand or similar and place in sealable containers for disposal.

Environment Soluble iron salts may be toxic to animals (at ~500 ppm), fish (at ~100 ppm) and aquatic microorganisms. Levels in drinking water should be below 3 ppm.

Fire and Explosion

Non flammable. If product is present in a fire, toxic gases may be evolved. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

Extinguishing Non flammable.

6.FIRST AID

Eye Flush gently with running water. Seek medical attention if irritation develops.

Inhalation If over exposure occurs, leave exposure area immediately. Seek medical attention if symptoms develop.

Skin Gently flush affected areas with water.

First Aid Facilities Eye wash facilities and safety shower are recommended.

7.SAFE HANDLING

Storage Store in cool, dry, well ventilated area, removed from oxidising agents (eg. hypochlorites), acids, metals and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation systems.

Waste Disposal For small amounts, cover with moist sand or similar, collect and dispose of to an approved landfill site. Avoid generating dust.

Transport Not regulated for transport purposes.

8.PHYSICAL AND CHEMICAL PROPERTIES

Flammability: NON FLAMMABLE

Flash Point: NOT RELEVANT

Boiling Point: NOT AVAILABLE

Melting Point: 64 C

Exposure Standard: 1 mg/m³ as Iron, soluble salts

Evaporation Rate: NOT AVAILABLE

pH: NOT AVAILABLE %

Volatiles: NOT AVAILABLE

Specific Gravity: 2.9

Solubility (water): SOLUBLE

Vapour Pressure: NOT AVAILABLE

Upper Explosion Limit: NOT RELEVANT

Lower Explosion Limit: NOT RELEVANT

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