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MATERIAL SAFETY DATA SHEET - FERROUS SULPHATE -

Hazardous according to criteria of Worksafe Australia

1. IDENTIFICATION

Product name: Ferrous Sulphate Mono
Other names: Iron Sulphate, Iron Vitriol, Coperas, Green Vitriol, Sal Chalybis
Product code: FESULP36
U.N. number: None allocated
Dangerous goods class: None allocated
Secondary risk: None allocated
Hazchem code: None allocated
Pack group: None allocated
EPG: None allocated
Poisons schedule: None allocated

Uses:

Iron oxide pigment, other iron salts, ferrites, water and sewerage treatment, catalyst especially for synthetic ammonia, fertilizer, feed additive, flour enrichment, reducing agent, herbicide, wood preservative and process engraving.

1.1 Physical Description / Properties

Appearance: Greenish or yellow-brown crystals or granules, odourless.
Formula: $\text{FeSO}_4 \cdot x\text{H}_2\text{O}$
Boiling point: n/a
Melting point: 64°C
Vapour pressure: n/a
Specific gravity: 2.9 (water = 1)
Flash point test unknown: n/a
Solubility in water: > 100 g/l (25°C)
Lower explosion limit: n/a
Upper explosion limit: n/a
pH: n/a

1.2 Other Properties

Soluble in water with saline taste, insoluble in alcohol.

1.3 Ingredients

Ferrous Sulphate C.A.S. No. (7782-63-0) Proportion 100%

2. HEALTH HAZARD INFORMATION**2.1 Health Effects - Acute****Swallowed**

Gastrointestinal discomfort, vomiting, diarrhoea. Symptoms of the ingestion of large amounts may be delayed for several hours and may include epigastric pain, haematemesis and possible circulatory failure. Hours or days after apparent recovery metabolic acidosis, convulsions and coma may occur. If the patient survives, symptoms of acute liver necrosis may develop and could lead to death due to hepatic coma.

Eye

Moderate eye irritant.

Skin

Practically non-harmful.

Inhaled

No data available.

2.2 Health Effects - Chronic

Chronic symptoms by ingestion are constipation which has been reported in the continued administration of medical amounts or iron salts.

2.3 First Aid**Swallowed**

Where the amount exceeds 300mg, seek medical aid. Poison Information Centres in each state capital city can provide additional assistance.

Eye

Irrigate with cold running water. If soreness or irritation persists, seek medical aid.

Skin

Remove contaminated clothing and wash affected area with running water. Seek medical aid if irritation persists.

Inhaled

Remove victim from exposure - avoid becoming casualty. Seek medical attention if discomfort persists.

2.4 First Aid Facilities

Ensure an eye bath and safety shower are available and ready to use.

2.5 Advice to Doctor

Treat symptomatically based on judgement of doctor and individual reactions of patient. Primary routes of entry are by ingestion, inhalation, skin contact and eye contact. Symptoms may be delayed for hours or days.

2.6 Toxicity Data

Oral LD50 = 1480 mg/kg (Ratio)

Dermal LD50 = not available

Inhalation LC50 = not available

3. PRECAUTIONS FOR USE

3.1 Exposure Standards

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

For iron salts, soluble as Fe: TLV - 1mg/m³. As published by the National Health & Medical Research Council.

3.2 Engineering Controls

Ensure adequate general or local exhaust ventilation to maintain airborne concentrations below the exposure limit.

3.3 Personal Protection

Wear safety glasses with side shields. Use dust mask or respirator with dust cartridge. Wash hands and face thoroughly after handling and before eating, drinking, smoking or using toilet facilities.

3.4 Flammability

Not flammable under normal conditions of use.

4. SAFE HANDLING INFORMATION

4.1 Storage / Transport

Not defined as a Dangerous Good by the Australian Code for the transport of Dangerous Goods by Road and Rail. No special storage or transport requirements necessary. Store in a dry well-ventilated location.

4.2 Packaging / Labelling

U.N. No: n/a

Class: n/a

Subs risk: n/a

Hazchem code: n/a

Pack group: n/a

EPG No: n/a

Shipping name: Ferrous Sulphate

Hazard: Harmful

Risk Phrases: R22 - Harmful if swallowed

Safety Phrases: S24/25 - Avoid contact with skin and eyes

4.3 Spills and Disposal

Spills

Clean up personnel should wear full protective clothing including breathing apparatus if dusty conditions prevail. Carefully vacuum or sweep up and remove. Store in well sealed containers for reuse or disposal.

Disposal (After treatment above)

Disposal of in accordance with all Local, State and Federal regulations at an approved waste disposal facility.

4.4 Fire and Explosion Hazard

Fire / Explosion

Not combustible. Can decompose in a fire emitting toxic SO_x fumes.
No data Available.

Extinguishing Media

Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use equipment/media appropriate to surrounding fire conditions. Not advisable to use chlorinate type extinguishers as there is the possibility of toxic fumes being produced by the catalytic decomposition of the chlorinated compound.

5. OTHER INFORMATION

Other information: no data available

5.1 Contact Points

Poisons Information Centre Westmead NSW Phone: 13 1126

SPECIAL NOTES

The information, data, and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by Paton Fertilizers Pty Ltd to be accurate. Paton Fertilizers Pty Ltd makes no warranties, either expressed or implied, with respect thereto and assumes no liability in connection with any use of such information, data, and recommendations.

Contact: Technical Services Manager
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