



SAFETY DATA SHEET

Date of issue: 05/05/04

1. Identification of the substance/preparation and of the company/undertaking

Identification of the product

Catalogue No: 27166

ID No.: 1002200

Product name: **di-Ammonium iron(II) sulphate 6-hydrate GPR (ammonium ferrous sulphate)**

Use of the substance/preparation: General chemical reagent

Manufacturer/supplier identification

Company: VWR International Ltd., Hunter Boulevard, Lutterworth,
Leics, LE17 4XN, England
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2. Hazards identification

Not classified as dangerous according to EC Directives.

3. Composition/information on ingredients

Chemical characterization

Inorganic salt

Product name: di-Ammonium iron(II) sulphate 6-hydrate
Synonyms: Mohr's salt , Ferrous ammonium sulphate

CAS number: 7783-85-9

EC-No.: 233-151-8

Molecular formula: $(\text{NH}_4)_2\text{SO}_4 \cdot \text{FeSO}_4 \cdot 6\text{H}_2\text{O} = 392.13 \text{ g/mol}$

4. First-aid measures

- Eye contact: Irrigate thoroughly with water. If discomfort persists obtain medical attention.
- Inhalation: Remove from exposure.
- Skin contact: Wash off thoroughly with soap and water.
- Ingestion: Wash out mouth thoroughly with water. In severe cases obtain medical attention.

5. Fire-fighting measures

Special risks:

Not combustible. The following may develop in event of fire: nitrogen oxides sulphur oxides.

Suitable extinguishing media:

To suit environment.

6. Accidental release measures

Wear appropriate protective clothing.

If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.

For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers.

Any residues should be treated as for small spillages.

7. Handling and storage

Handling:

Change contaminated clothing. Wash hands after working with substance.

Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

WEL - Iron salts (as Fe):

Long term: 1 mg/m³ Short term: 2 mg/m³

Personal protective equipment:

As appropriate to the situation and the quantity handled.

- Respirator: Dust respirator
- Ventilation: Extraction hood
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

9. Physical and chemical properties

General information:

Form:	solid
Colour:	light green
Odour:	odourless

Health, safety and environmental information:

Melting temperature	100°C
Boiling temperature	Not applicable
Density(g/ml)	1.86
Bulk density:	~900 Kg/m ³
Solubility in water	Soluble
pH value	3-5 (50g/l,H ₂ O,20°C)
Flash point	Not applicable

Explosion limits: lower: Not applicable
Auto-ignition temperature Not applicable

10. Stability and reactivity

sensitive to air.

No data

11. Toxicological information

- After eye contact: May irritate.

- After skin contact: May irritate.

Hazardous properties cannot be excluded but unlikely when handled appropriately. The product should be handled with the care usual when dealing with chemicals.

Further data

LD50 3250 mg/kg oral, rat.

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

12. Ecological information

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

Further ecological data:

The following applies to ammonium ions in general: biological effects: fish: toxic from 0.3 mg/l up; plankton: toxic from 0.3 mg/l up.

The following applies to dissolved iron compounds in general: fish: toxic from 0.9 mg/l up at pH 6.5-7.5; lethal from 1 mg/l up at pH 5.5-6.7; 50 mg/l iron upper limit for fish life. When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms.

The following applies to sulphates in general: biological effects: fish: toxic from 7 g/l up; bacteria: toxic from 2.5 g/l up.

13. Disposal considerations

Chemical residues are generally classified as hazardous or special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Not classified as dangerous according to EC Directives.

EC-No.: 233-151-8

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH) regulations.

16. Other information

General update. Revision.
Supersedes issue of 30/03/01

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