



UNCHING INDUSTRY CO., LTD.

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen, Samutsakhon 74110.

Tel: 02 - 810 - 1345 Fax: 02 - 810 - 1346

## SAFETY DATA SHEET

### FERROUS SULFATE

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

##### Identification of the product

**Product name:** FERROUS SULFATE

**Company:** UNCHING INDUSTRY CO., TLD

109/20 Moo 9, Setthakit 1 Rd., T. Suanluang, A.Krathumbaen,  
Samutsakhon 74110

**Tel:** 02 - 810 - 1345

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#### 2. Hazards identification

##### GHS classification of the substance/mixture

##### Health hazards

Acute Toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 2

##### Pictogram (s)



##### Signal Word (s)

**WARNING**

##### Hazard Statement (s)

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation

**Precautionary statements**

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients**

Product Name	CAS Numbers	Weight Percentage
FERROUS SULFATE	7720-78-7	30 %
SULFURIC ACID	7664-93-9	0.5 %
WATER	7732-18-5	69.5 %

**Molecular formula:**  $\text{FeSO}_4$

**Synonyms:** Iron (II) Sulfate

**4. First aid measures**

**Eye Contact First Aid:** Immediately flush eyes for 15 minutes with large amounts of water while holding eyelids apart. Washing within one minute is essential to achieve maximum effectiveness. Obtain medical attention IMMEDIATELY after flushing.

**Skin Contact First Aid:** Flush skin with water. Remove contaminated clothing; wash before reuse. If irritation is still present, seek medical attention IMMEDIATELY.

**Inhalation First Aid:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention IMMEDIATELY.

**Ingestion First Aid:** DO NOT INDUCE VOMITING. Give 1 or 2 glasses of water or milk. Never give anything by mouth to an unconscious individual. Obtain medical attention IMMEDIATELY.

## 5. Fire-fighting measures

### Fire Fighting Instructions

Firefighters should wear proper protective equipment and selfcontained breathing apparatus with full face-piece operated in a positive pressure mode. Move exposed containers from fire area.

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## 6. Accidental release measures

**Review safety precautions.** Before proceeding with cleanup use appropriate personal protection equipment. Do not touch spilled material. Neutralize spill with lime (calcium hydroxide), limestone (calcium carbonate), or soda ash (sodium carbonate). Restrict access to area until completion of clean up.

**Caution:** limestone and soda ash will evolve CO<sub>2</sub>; ventilation should be provided in enclosed areas. Dike area around spill to prevent spreading, and use absorbent material to pick up spill.

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## 7. Handling and storage

### Handling

Be cautious of substance residue in empty containers. Act according to precautions and warnings set forth.

### Storage

Store in a tightly closed container. Fiberglass, plastic. Protect from damage and keep separated from incompatible substances.

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## 8. Exposure controls/personal protection

**Respiratory Protection:** Government approved respirator.

**Eye Protection:** Wear splash resistant goggles and/or safety glasses with side shields.

**Skin Protection:** Use the following as appropriate.

Avoid skin contact: gloves impervious to material, boots, and protective clothing

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## 9. Physical and chemical properties

Appearance	Brown Colored Liquid
Boiling Point:	100 °C (212 °F)
pH:	1 - 3
Melting Point:	not available
Specific Gravity	1.20 – 1.24 g/cm <sup>3</sup>

Vapor Pressure:.	>70 (Water)
% Volatile:	not available
Evaporation Rate:	not available
Vapor Density (Air = 1):	not available
Solubility in water	Complete

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## 10. Stability and reactivity

### Stability

Stable at normal conditions

### Polymerization

Will not occur.

### Incompatibility

Avoid oxidizing agents and alkalis. May be corrosive to cast iron, copper, paints, and concrete.

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## 11. Toxicological information

### Chronic Effects

Repeated dosage may cause hemosiderosis, including possible damage to liver and pancreas.

### Toxicological information

LD<sub>50</sub> (oral, rat) 319 mg/kg

### Reproductive Effects:

No data available.

### Target Organs

No data available.

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## 12. Ecological information

**Ecotoxicological Information:** No ecological effects of this product are known. Safely store product to avoid release to the environment.

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## 13. Disposal considerations

### Substance disposal

Please contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste. Dispose of waste in accordance with applicable federal, state, and local laws.

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14. Transport information

UN Number : 1760

Class: 8

Packaging group: III

Correct technical name: Ferrous Sulfate

15. Regulatory information

Labelling according to EC Directives

Symbol	Xn	Harmful immediately and show this container or label
R-phrases	R 22	Harmful if swallowed.
S-phrases	S 24/25	Avoid contact with skin and eyes
EC-No.	---	

German regulations

Water pollution class	1	(slightly polluting substance)
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16. Other information

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