



EMERGENCY CARD

Ferrous sulphate monohydrate

- 1) **Chemical product and company identification**
Ferrous Sulfate, Iron Sulfate. Concentration: 30% Fe
Class:9
U.N.: 3077
N°. CAS: 13463-43-9

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2) **Hazard identification**

Overview of the emergencies

Harmful light yellow powder by ingestion, can cause skin and eye irritation.

Acute toxicity, Category 4, oral, H302
Skin irritation, Category 2, H315 Eye
irritation, Category 2, H319

Elements of the label

Hazard pictograms



Word of warning
Attention

Danger indications
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes severe eye irritation.

Precautionary statements
Preventing
P264 Wash carefully after handling.
P270 Do not eat, drink, or smoke while handling this product.
P280 wear gloves, eye/face protection equipment.

Intervention

P301 + P312 IN CASE OF INGESTION: call a poison information center or a doctor in case of discomfort.

P302 + P352 IN CASE OF SKIN CONTACT: wash with plenty of soap and water.

P305 + P351 + P338 IN CASE OF EYE CONTACT: rinse carefully with water for several minutes. Remove contact lenses when they are present and can be done easily. Continue with the washing.

Potential adverse health effects

Inhalation: Inhalation of material can be harmful.

Skin and eyes: Contact can cause skin and eye burns.

Signs and symptoms: Irritating effects, conjunctivitis, stomach pains, diarrhea, vomiting, collapse and death.

Risk of corneal turbidity.

For soluble iron compounds

After ingestion, nausea and vomiting.

After absorption of large amounts: cardiovascular conditions. Toxic effect on the liver and kidneys.

3) Exposure and personal protection controls Control parameters

ACGIH threshold limit value (TLV): 1 mg/m³ (TWA) for powders and mists.

OSHA Permissible Exposure Limit (PEL): 1 mg/m³ (TWA) for powders and mists.

NIOSH recommended exposure limit: 1 mg/m³ (TWA) for powders and mists.

Exposure controls

Ventilation system

A local and/or general exhaust aeration system is recommended to keep employee exposures below exposure limits. Local exhaust ventilation is generally preferred because emissions of the pollutant at its source can be controlled, preventing its dispersion in the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Best Practice Manual, latest edition, for details.*

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded a particulate respirator half dust/fog mask shall be used if it is exposed 10 times above the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator provider, Anything that is lower. A full dust/fog mask particulate respirator shall be used if 50 times above the exposure limit or maximum use concentration specified by the appropriate regulatory agency or respirator provider, whichever is lower. For emergencies or cases where exposure levels are not known, use a full positive pressure mask, a self-contained respirator.

WARNING: Self-contained respirators do not protect workers in oxygen-deficient atmospheres.

Hand protection

Submergence

Material of the glove:	Nitrile rubber
Thickness of the glove:	0,11 mm
Time of penetration:	>480 min

Spatter

Material of the glove:
Thickness of the glove:
Time of penetration:

Nitrile rubber
0,11 mm
>480 min

Protection of the eyes:

Wear protective chemical goggles. Keep an eye wash fountain and emergency showers in the work area.

4) **Stability and reactivity**

Materials to be avoided: reaction capacity enhanced with bases and oxidants.

Dangerous decomposition products are not known.

Additional information: light sensitivity. Decomposes at temperature greater than 400°C.

It loses crystallization water at approximately 300°C.

E M E R G E N C Y C O N T R O L

5) **First aid**

After inhalation: fresh air.

After skin contact: immediately remove all contaminated garments. Wash with plenty of water for at least 20 minutes.

After eye contact: Rinse the affected eye for 10 minutes with running water. Then immediately transport the patient to the ophthalmologist, continue rinsing during transport with water.

After ingestion: If the patient is conscious, ask him to drink 1 glass of water (about 200 ml). Do not induce vomiting. In case of spontaneous vomiting, keep the patient face down to prevent vomiting from entering the airways. Consult with a doctor.

Indication of any medical care and special treatment to be provided immediately

Make sure medical personnel are aware of the materials involved, and take precautions to protect themselves.

6) **Firefighting**

Explosive properties: not classified as explosive.

Oxidizing properties: none.

Ignition temperature: not combustible.

Appropriate means of extinction

Small fire: dry chemical powder, CO₂, water spray or AFFF foam.

Big Fire: Use water spray, fog or regular foam. Do not disperse spilled material with high pressure water jets. Move containers from the fire area if you can safely do so. Make a dam for the water that controls the fire for its subsequent disposal.

7) **Spills**

Do not touch or walk on spilled material. Stop the spill, if you can safely do so. Prevent the dust cloud.

Small spill

With a clean shovel place the material in a clean and dry container and cover loosely; remove containers from the spill area.

Big spill

Cordon off the area with signage tape, cover the dust spill with a sheet of plastic or canvas to minimize its spread.

Prevent entry into waterways, sewers, basements or confined areas.

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