

SAFETY DATA SHEET

Revision Date 20.Apr.2023

1. Product name and details of the supplier of the safety datasheet

Product name :Ammonium Iron(II) Sulfate Hexahydrate

Company : Chikamochi Pure Chemical Co. , Ltd.
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2. Hazards Identification

【GHS classification】

Classification of the substance or mixture

Serious eye damage/eye irritation

Category 2B

【Pictograms】

【Signal word】

Warning

【Hazard statements】

Central nervous system

【Precautionary statements –(Prevention)】

- Wash face, hands and any exposed skin thoroughly after handling

【Precautionary statements-(Response)】

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention

【Precautionary statements-(Storage)】

- Not applicable

【Precautionary statements-(Disposal)】

- Not applicable

【Other hazards】

- Not available

3. Composition/information on ingredients

【Substances】

Formula	: $\text{Fe}(\text{NH}_4)_2(\text{SO}_4)_2 \cdot 6\text{H}_2\text{O}$
Molecular weight	: 392.14 g/mol
CAS No.	: 7783-85-9
ENCS	: 1-359, 1-400
ISHL No.	: Announced chemical substances

4. Description of first aid measures

【If inhaled】

Remove to fresh air. If symptoms persist, call a physician.

【In case of skin contact】

Wash off with soap and plenty of water.

【In case of eye contact】

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

【If swallowed】

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. Firefighting measures

【Suitable extinguishing media】

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

【Unsuitable extinguishing media】

No information available

【Special hazards arising from the substance or mixture】

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

【Special extinguishing method】

No information available

【Special protective actions for fire-fighters】

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. Accidental release measures

【Personal precautions, protective equipment and emergency procedures】

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear

appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

【Environmental precautions】

To be careful not discharged to the environment without being properly handled waste water contaminated.

【Methods and materials for containment and cleaning up】

Sweep up and gather scattered particle, and collect it in an empty airtight container.

【Recoverly, neutralization】

No information available

【Secondary disaster prevention measures】

Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

【Precautions for safe handling】

Avoid contact with strong oxidizing agents. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. General industrial hygiene practice.

【Conditions for safe storage, including any incompatibilities】

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

8. Exposure controls/personal protection

【Engineering controls】

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand and eye-wash facility. And display their position clearly.

【Exposure limits】

ACGIH:TWA: 1mg/m³ (Fe)

【Personal protective equipment】

Respiratory protection	Dust mask
Hand protection	Protective gloves
Eye protection	Protective eyeglasses or chemical safety goggles
Skin and body protection	Long-sleeved work clothes

【General hygiene considerations】

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance	Form: crystalline powder (pale bluish green)
Odour	:No data available
Odour Threshold	:No data available

pH	:No data available
Melting point/freezing point	:100°C
Initial boiling point and boiling range	:No data available
Flash point	:No data available
Evaporation rate	:No data available
Flammability (solid, gas)	:No data available
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: No data available
Water solubility	: freely soluble
Partition coefficient: n-octano/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

1 0 . **Stability and reactivity**

【Reactivity】

No data available

【Chemical stability】

This material is efflorescent.

【Possibility of hazardous reactions】

No data available

【Conditions to avoid】

Extremes of temperature and direct sunlight, Moisture

【Incompatible materials】

Strong oxidizing agents

【Hazardous decomposition products】

Nitrogen oxides (NOx), Sulfur oxides (Sox), Metal oxides

1 1 . **Information on toxicological effects**

【Acute toxicity】

Oral LD50 : 3250mg/kg (Rat)

【Skin corrosion/irritation】

No data available

【Serious eye damage/eye irritation】

No data available

【Respiratory or skin sensitization】

No data available

【Germ cell mutagenicity】

No data available

【Carcinogenicity】

No data available

【Reproductive toxicity】

No data available

【Specific target organ toxicity – single exposure】

No data available

【Specific target organ toxicity – repeated exposure】

No data available

【Aspiration hazard】

No data available

【Additional Information】

No data available

1 2 . Ecological information

【Toxicity】

No data available

【Persistence and degradability】

No data available

【Bioaccumulative potential】

No data available

【Mobility in soil】

No data available

【Results of PBT and vPvB assessment】

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

1 3 . Disposal considerations

【Waste from residues】

Disposal should be in accordance with applicable regional, national and local laws and regulations.

【Contaminated container and contaminated packaging】

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Water Pollution Control Act	: Harmful Substances (Law Art.2, Enforcement Order Art.2, Ordinance Designating Wastewater Standards Art.1)
Export Trade Control Order	: Not applicable

1 6 . Other information

【Further information】

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