



Promising Chemicals Co.,Ltd.

## SAFETY DATA SHEET (SDS)

### MANGANESE SULFATE MONOHYDRATE

(32)

#### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer & Supplier: PROMISING CHEMICALS CO., LTD.

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Product Name: Manganese Sulfate Monohydrate

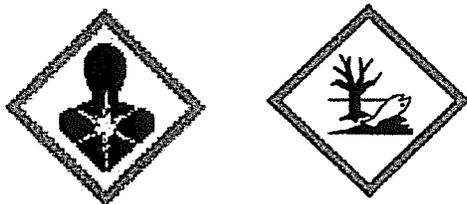
Formula:  $MnSO_4 \cdot H_2O$

Synonyms: Manganese Sulfate, Manganous Sulphate

Primary Use: Mineral nutrient additive for the feed industry.

#### SECTION 2 - HAZARDS IDENTIFICATION

##### HAZARD PICTOGRAMS (GHS-US):



WARNING

##### HAZARD STATEMENTS (GHS-US)

May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

##### PRECAUTIONARY STATEMENT (GHS-US)

Wash skin thoroughly after handling. Don't eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection, protective gloves. If swallowed: call a doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. Rinse mouth. Collect spillage. Dispose of contents/ container to an authorized waste collection point.



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ISO9001 & FAMIQS Certified Company



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### SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $MnSO_4 \cdot H_2O$

Molecular Weight: 169.02 g/mol

Appearance & Odour: Solid granular powder (fine), white to pink in color.

CAS-No 10034-96-5

Hour Emergency HAZMAT Response: ( 86 ) 731 85328848

### SECTION 4 - FIRST AID MEASURES

Effects and symptoms: Chills, fever, nausea, vomiting, coughing, weakness and headaches, skin irritation.

First aid

- Skin contact: Wash immediately with plenty of water and soap/
- Inhalation: Remove victim to fresh air. Clean nasal cavity with water. Give oxygen if breathing difficulty. Seek medical attention.

If feeling unwell, immediately seek medical attention.

- Eye contact: Rinse immediately with clean water for 15 minutes.

If feeling unwell, immediately seek medical attention.

- Ingestion: Immediately rinse mouth with water.

Do not induce vomiting. Give large quantities of water or milk to drink.

If feeling unwell, immediately seek medical attention.

Protection of rescue personnel: Avoid all unnecessary exposure. Use appropriate protection

### SECTION 5 - FIRE, FIGHTING & EXPLOSION DATA

Fire: Non Combustible.

Flammability: Non Flammable

Flash point: Not Combustible

Extinguishing media: In case of fire in immediate vicinity use any extinguishing agent.

Protection of fire-fighters: Use breathing apparatus (self-contained breathing apparatus with full face shield). Wear suitable protective clothing.

Hazardous combustion and: None.

Decomposition products

### SECTION 6 - ACCIDENTAL RELEASE MEASURES & SPILL LEAK PROTECTIVE EQUIPMENT





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## PROCEDURES

Personal precautions: Wear suitable gloves and eye/face protection. Avoid dust creation.

Environmental precautions: Avoid allowing product to enter drains, sewage system, ground water.

Methods for cleaning up: Sweep up and shovel into suitable containers for disposal. Re-use or recycle waste.

## SECTION 7 - HANDLING AND STORAGE

Handling & storing: Good housekeeping - store in a cool dry place - keep containers shut.

Avoid making dust. Avoid moisture.

Packing Materials: All materials suitable.

## SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

- Respiratory protection: Respiratory protection equipment necessary when dust is apparent  
Type P1 respirator (EN 143).

- Hand protection: Protective Gloves.

Material: leather gloves, cotton gloves, rubber gloves.

- Skin protection: Work clothes.

- Eye protection: Chemical goggles or safety glasses.

- Engineering measures: Mechanical ventilation is recommended.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form: light pink powder

Melting Point: 700 degrees celcius.

Solubility in water: Soluble

Appearance & Odour: Solid granular powder(fine), white to off white colour.

Density: 2.95 g/cm<sup>3</sup>

## SECTION 10 - STABILITY & REACTIVITY DATA

Stability: Stable under ordinary conditions, avoid moisture.

Hazardous Reactions: Hazardous decomposition products formed under fire conditions. -

Sulphur oxides, Manganese/manganese oxides.

Incompatibility (materials to avoid): Strong oxidizing agents. Avoid moisture

## SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity Harmful: danger of serious damage to health by prolonged exposure if swallowed.

- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

- Dermal: May cause skin irritation. .

- Ingestion: Harmful if swallowed. Danger of serious damage to health,

Dermal irritation: Can cause irritation.

Eyes irritation: Causes serious eye irritation.



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## Promising Chemicals Co.,Ltd.

Chronic toxicity: Not available.

Sensitization: Not available.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Mutagenicity: Not available.

Reproductive toxicity: Reproductive toxicity - mouse - male - Oral

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Men exposed to manganese dusts showed a decrease in fertility. Chronic manganese poisoning primarily involves the central nervous system. Early symptoms include languor, sleepiness and weakness in the legs. A stolid mask-like appearance of the face, emotional disturbances such as uncontrollable laughter and a spastic gait with tendency to fall in walking are findings in more advanced cases. High incidence of pneumonia has been found in workers exposed to the dust or fume of some manganese compounds., Prolonged or repeated inhalation may cause:, Pneumonia

### SECTION 12 - ECOLOGICAL INFORMATION

Persistence and degradability: Not applicable.

Bioaccumulative potential: Not applicable.

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility: Not applicable .

### SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Comply with local regulations for disposal.

Waste of residues: This material and its container should be labeled as per GHS-US

Contaminated packaging: Keep waste packaging separate.

Waste should be disposed of in a permitted chemical waste facility.

### SECTION 14 - TRANSPORT INFORMATION

Safe transportation of common goods.

This substance presents no explosive hazard.

The screening test of flammability is conducted in accordance with the regulation, the result indicates that the substance does not belong to flammable solid.

The substance does not belong to oxidizing substances.

The substance does not belong to toxic substances.

The substance does not belong to Radioactive Material.

The substance does not belong to Corrosives.



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**SECTION 15 - REGULATORY INFORMATION**

Classification according to Regulation 29 CFR 1910.1200 (GHS-US).  
This Safety Data Sheet complies with 29 CFR 1910.1200 (GHS-US).

**SECTION 16 - OTHER INFORMATION**

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SDS Updated by: JACK SONG

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