# MANGANESE SULFATE Safety Data Sheet

# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

Product Name Manganese Sulfate

Chemical Name Manganese (II) Sulfate Monohydrate

Recommended use Fertilizer

Uses advised against None Non-hazardous

Company Jiangsu Khonor Chemicals Co., Limited

Rm 1902 Easey Comm Bldg, 253-261, Hennessy RD Wanchai

HK

Company Telephone/Fax 86-518-85108858 Emergency Telephone Number +86 19851820538

## SECTION 2: HAZARD IDENTIFICATION

Classification of the Specific target organ toxicity - repeated exposure (Category 2)

substance or mixture Chronic aquatic toxicity (Category 2)

#### **GHS** label elements

**Hazard pictograms** 







Signal word Warning Hazard statements

May cause damage to organs through prolonged or repeated

exposure, category 2 Eye damage, category 1

Toxic to aquatic life with long lasting effects. Category 2

Precautionary statements
General

General Wear eye/face protection.

Do not breathe dust, fume, gas, mist, vapors, spray. Do not eat, drink or smoke when using this product. Get Medical Advice / Attention if you feel unwell.

Avoid release to the environment.

Collect Spillage. Store locked up.

Dispose in accordance with local, state and federal regulations.

# **SECTION 3: COMPOSITION INFORMATION ON INGREDIENTS**

INGREDIENTCAS NO.% WTManganous Sulfate, Monohydrate10034-96-595-100%

# **SECTION 4: FIRST AID MEASURES**

General Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice(show the label where possible).

**Skin** Remove affected clothing and immediately wash all exposed skin area with mild soap and water, followed

by warm water rinse.

Eyes Rinse eyes 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.

Inhalation Remove victim to fresh air. Clean nasal cavity with water. Seek medical attention if discomfort or

irritation persists.

**Ingestion** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. **Symptoms:** Chills, fever, nausea, vomiting, coughing, weakness and headaches, skin irritation

## **SECTION 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Special Fire Fighting Procedures** Use water spray or fog for cooling exposed containers.

None

Exercise caution when fighting any chemical fire. Prevent firefighting

water from entering environment.

shield. Wear suitable protective clothing.

Hazardous combustion and

**Decomposition products:** 

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**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. Reuse or recycle waste.

## SECTION 7: HANDLING AND STORAGE:

**Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent

formation of vapor. Avoid breathing dust. Avoid moisture

**Storage:** Store in a cool location. Proide ventilation for contaiers. Store away from fooddstuffs.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION INFORMATION

Control Parameters USA ACGIH ACGIH TWA (mg/m³) 0.2 mg/m³

USA OSHA OSHA PEL (Ceiling) (mg/m3) 5 mg/m3

Emergency eye wash fountains and safety showers should be available in the immediate

vicinity of any potential exposure. Ensure adequate ventilation.

**Respiratory Protection** 

Wear appropriate mask.

Eye Protection

Chemical goggles or safety glasses.

Hand Protection:

Wear protective gloves.

Protective Equipment: Other information:

Avoid all unnecessary exposure.

Do not eat, drink or smoke during use.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Form: Solid granular powder(fine)

**Melting Point:** 700 degrees celcius.

Solubility in water:SolubleOdor:NoneDensity:2.95 g/cm3Specific Gravity:3:25

#### **SECTION 10: STABILITY AND REACTIVITY DATA**

**Stability** Stable under normal conditions of storage

**Hazardous reactions**Hazardous decomposition products formed under fire conditions,- Sulphur oxides,

Manganese/manganese oxides

**Incompatible materials** Strong oxidizing agents. Avoid moisture

#### SECTION 11: TOXICOLOGICAL INFORMATION

LD50 oral rat 2150 mg/kg

Target Organs May cause damage to organs through prolonged or repeated exposure

**Acute Toxicity** 

**Skin** May cause skin irritation **Eyes** Causes serious eye irritation

Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Harmful if swallowed. Danger of serious damage to health.

Carcinogenicity: No component of this product present at levels greater than or equal to 0.1% is identi

fied as probable, possible or confirmed human carcinogen by IARC.

Mutagenicity: Not available.

Reproductive toxicity: No additional information

**SECTION 12: ECOLOGICAL INFORMATION** 

Persistence and Not applicable.

degradability:

**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 INFORMATION**

Waste Disposal Method Dispose in a safe manner in accordance with local/national regulations. Dispose of

contents/container to comply with local, state and federal regulations.

Avoid release to the environment. See information on label.

#### **SECTION 14: TRANSPORT INFORMATION**

# **U.S. DEPARTMENT OF TRANSPORTATION**

**DOT** Not Regulated

IMDG UN-Number: 3077, Class: 9 ,Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Manganese Sulfate monohydrate) Marine pollutant: Yes

IATA UN-Number: 3077, Class: 9, Packing group: III Proper shipping name: Environmentally

hazardous substance, solid, N.O.S. (Manganese Sulfate monohydrate)

# **SECTION 15: REGULATORY INFORMATION**

#### **US federal regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

No

**Hazard categories** Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance SARA 311/312 Hazardous

**chemical** No

## **SECTION 16: OTHER INFORMATION**

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