

# SAFETY DATA SHEET (SDS)

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## Specialty MnCO<sub>3</sub> Powder for Liquid Fertilizer Production

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In accordance with GHS (Globally Harmonized System of Classification and Labelling of Chemicals)

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product Identifier

- **Product Name:** Specialty MnCO<sub>3</sub> Powder for Liquid Fertilizer Production
- **Chemical Formula:** MnCO<sub>3</sub>
- **CAS Number:** 598-62-9
- **EINECS Number:** 209-942-9
- **IUPAC Name:** Manganese(II) carbonate

#### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- **Identified Uses:** Raw material for liquid fertilizer production, precursor for manganese chelates, foliar spray ingredient.
- **Uses Advised Against:** No specific uses advised against.

### 1.3 Details of the Supplier of the Safety Data Sheet

<b>Supplier</b>	<b>BTLnewmaterial</b>
<b>Address</b>	Room 706, No. 154, Wuyi East Road, Niezhou Residential Committee, Caizichi Sub-district Office, Leiyang City, Hengyang City, Hunan Province, China
<b>Email</b>	lixifirm@outlook.com
<b>Phone/WhatsApp</b>	+8618273793022
<b>Website</b>	<a href="http://manganesesupply.com">manganesesupply.com</a>

### 1.4 Emergency Telephone Number

- **Emergency Contact:** +8618273793022 (Available during business hours)
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## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the Substance or Mixture

- **GHS Classification:** Not classified as a hazardous substance or mixture according to GHS, OSHA (29 CFR 1910.1200), or EU Regulation (EC) No. 1272/2008.

### 2.2 GHS Label Elements

- **Signal Word:** None
- **Hazard Statements:** None
- **Precautionary Statements:**
  - **P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
  - **P280:** Wear protective gloves/eye protection/face protection.
  - **P305+P351+P338:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## 2.3 Other Hazards

- May cause mild irritation to eyes, skin, and respiratory tract through mechanical action of dust.
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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Ingredient	CAS No.	EC No.	Concentration (%)
Manganese Carbonate	598-62-9	209-942-9	90% - 95% (43-44% Mn)

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## SECTION 4: FIRST AID MEASURES

### 4.1 Description of First Aid Measures

- **General Advice:** Show this safety data sheet to the doctor in attendance.
- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and plenty of water. Remove contaminated clothing. Seek medical attention if irritation develops.
- **Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses if present. Seek medical attention if irritation persists.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if large amounts are swallowed.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Mild irritation of the eyes, skin, and respiratory tract.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Treat symptomatically.
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing Media

- **Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
- **Unsuitable Extinguishing Media:** None known.

### 5.2 Special Hazards Arising from the Substance or Mixture

- Not combustible. Decomposition at high temperatures may release manganese oxides and carbon oxides.

### 5.3 Advice for Firefighters

- Wear self-contained breathing apparatus and full protective gear. Use water spray to cool unopened containers.
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust.

### 6.2 Environmental Precautions

- Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and Material for Containment and Cleaning Up

- Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for Safe Handling

- Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for Safe Storage, Including Any Incompatibilities

- Store in a cool, dry, well-ventilated place. Keep container tightly closed. Store away from strong acids and oxidizing agents.
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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control Parameters

- **Occupational Exposure Limits (Mn compounds):**
  - **ACGIH TLV:** 0.02 mg/m<sup>3</sup> (respirable), 0.1 mg/m<sup>3</sup> (inhalable).
  - **OSHA PEL:** 5 mg/m<sup>3</sup> (ceiling).

### 8.2 Exposure Controls

- **Engineering Controls:** Ensure adequate ventilation, especially in confined areas.
  - **Personal Protective Equipment:**
    - **Eye/Face Protection:** Safety glasses with side-shields.
    - **Skin Protection:** Handle with gloves. Use suitable protective clothing.
    - **Respiratory Protection:** Where protection from nuisance levels of dusts is desired, use type N95 (US) or type P1 (EN 143) dust masks.
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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties

Property	Value
Appearance	Pale pink to light brown fine powder
Odor	Odorless
pH (1% solution)	6.0 - 8.0
Melting Point	Decomposes before melting (> 200°C)
Boiling Point	Not applicable
Flash Point	Not applicable
Relative Density	3.12 g/cm <sup>3</sup>
Bulk Density	0.8 - 1.1 g/cm <sup>3</sup>
Solubility in Water	Insoluble (0.0065 g/L at 25°C)
Solubility in Acids	Highly soluble in dilute mineral and organic acids
Auto-ignition Temperature	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

- Stable under recommended storage conditions. Reacts with acids to release carbon dioxide gas.

### 10.2 Chemical Stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of Hazardous Reactions

- Reacts with strong acids to release carbon dioxide gas.

#### 10.4 Conditions to Avoid

- Moisture, dust formation, and incompatible materials.

#### 10.5 Incompatible Materials

- Strong acids, strong oxidizing agents.

#### 10.6 Hazardous Decomposition Products

- Manganese oxides, carbon oxides.
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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on Toxicological Effects

- **Acute Toxicity:** LD50 Oral (Rat) > 2000 mg/kg.
  - **Skin Corrosion/Irritation:** No skin irritation (Rabbit).
  - **Serious Eye Damage/Irritation:** Mild eye irritation (Rabbit).
  - **Respiratory or Skin Sensitization:** No sensitizing effects known.
  - **Germ Cell Mutagenicity:** Negative.
  - **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.
  - **Reproductive Toxicity:** No evidence of reproductive toxicity.
  - **Specific Target Organ Toxicity (Repeated Exposure):** Long-term exposure to manganese dust may affect the central nervous system (Manganism).
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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- Not expected to be harmful to aquatic organisms at typical environmental concentrations.

## 12.2 Persistence and Degradability

- The product is an inorganic substance and not subject to biodegradation.

## 12.3 Bioaccumulative Potential

- Low potential for bioaccumulation.

## 12.4 Mobility in Soil

- Low mobility in soil due to low solubility in water.
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# SECTION 13: DISPOSAL CONSIDERATIONS

## 13.1 Waste Treatment Methods

- **Product:** Offer surplus and non-recyclable solutions to a licensed disposal company.
  - **Contaminated Packaging:** Dispose of as unused product. Follow local regulations.
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# SECTION 14: TRANSPORT INFORMATION

## 14.1 UN Number

- **ADR/RID/IMDG/IATA:** Not regulated.

## 14.2 UN Proper Shipping Name

- **ADR/RID/IMDG/IATA:** Not dangerous goods.

## 14.3 Transport Hazard Class(es)

- **ADR/RID/IMDG/IATA:** Not applicable.

## 14.4 Packing Group

- **ADR/RID/IMDG/IATA:** Not applicable.

## 14.5 Environmental Hazards

- **ADR/RID/IMDG/IATA:** No.
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## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

- **TSCA (USA):** Listed on the inventory.
  - **REACH (EU):** Registered or exempt.
  - **IECSC (China):** Listed on the inventory.
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## SECTION 16: OTHER INFORMATION

### 16.1 Revision Information

- **Issue Date:** March 25, 2026
- **Version:** 1.0 (Specialty Grade)

### 16.2 Abbreviations and Acronyms

- **GHS:** Globally Harmonized System
- **CAS:** Chemical Abstracts Service
- **LD50:** Lethal Dose, 50%
- **TLV:** Threshold Limit Value

### 16.3 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, and disposal and is not to be considered a warranty or quality specification.