

# Safety Data Sheet (SDS / MSDS)

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**Product Name:** Black Mineral Pigment MnO<sub>2</sub> for Exterior Construction Paints

**Chemical Name:** Manganese Dioxide

**CAS Number:** 1313-13-9

**Manufacturer:** BTLnewmaterial

**Revision Date:** March 12, 2026

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## SECTION 1: IDENTIFICATION

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### 1.1 Product Identifier

- **Product Name:** Black Mineral Pigment MnO<sub>2</sub> for Exterior Construction Paints
- **Chemical Name:** Manganese Dioxide
- **Formula:** MnO<sub>2</sub>
- **CAS No.:** 1313-13-9

### 1.2 Relevant Identified Uses of the Substance or Mixture

- **Identified Uses:** Inorganic pigment for architectural and industrial coatings, cement-based coatings, and decorative building materials.

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

- **Company Name:** BTLnewmaterial
  - **Email:** lixifirm@outlook.com
  - **Phone/WhatsApp:** +86 18273793022
  - **Website:** [manganesesupply.com](http://manganesesupply.com)
  - **Address:** Room 706, No. 154, Wuyi East Road, Niezhou Residential Committee, Caizichi Sub-district Office, Leiyang City, Hengyang City, Hunan Province, China
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# SECTION 2: HAZARDS IDENTIFICATION

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## 2.1 Classification of the Substance or Mixture (GHS-US)

- Acute Toxicity, Oral (Category 4), H302
- Acute Toxicity, Inhalation (Category 4), H332
- Specific Target Organ Toxicity – Repeated Exposure (Category 2), H373 (Brain, Nervous System)

## 2.2 GHS Label Elements

- **Signal Word:** Warning
  - **Hazard Statements:**
    - H302+H332: Harmful if swallowed or if inhaled.
    - H373: May cause damage to organs (Brain, Nervous System) through prolonged or repeated exposure.
  - **Precautionary Statements:**
    - P260: Do not breathe dust/fume/gas/mist/vapors/spray.
    - P264: Wash skin thoroughly after handling.
    - P270: Do not eat, drink or smoke when using this product.
    - P271: Use only outdoors or in a well-ventilated area.
    - P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
    - P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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Ingredient	CAS No.	Concentration (%)
Manganese Dioxide (MnO <sub>2</sub> )	1313-13-9	75% - 90%
Other Inorganic Compounds	N/A	10% - 25%

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## SECTION 4: FIRST AID MEASURES

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### 4.1 Description of First Aid Measures

- **Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. Consult a physician.
- **Skin Contact:** Wash with soap and plenty of water.
- **Eye Contact:** Flush eyes with water as a precaution.
- **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most Important Symptoms and Effects

- Chronic manganese poisoning can cause nervous system disorders (manganism), characterized by tremors, mask-like facial expression, and slurred speech.
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## SECTION 5: FIREFIGHTING MEASURES

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### 5.1 Extinguishing Media

- Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

### 5.2 Special Hazards Arising from the Substance

- Manganese oxides. MnO<sub>2</sub> is an oxidizer and may increase the intensity of a fire.

### 5.3 Advice for Firefighters

- Wear self-contained breathing apparatus for firefighting if necessary.
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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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### **6.1 Personal Precautions**

- Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

### **6.2 Environmental Precautions**

- Do not let product enter drains.

### **6.3 Methods for 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**

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### **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**

- Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.
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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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### **8.1 Control Parameters**

- OSHA PEL: 5 mg/m<sup>3</sup> (Ceiling) as Mn.

- ACGIH TLV: 0.02 mg/m<sup>3</sup> (Respirable fraction), 0.1 mg/m<sup>3</sup> (Inhalable fraction) as Mn.

## 8.2 Exposure Controls

- **Eye/Face Protection:** Safety glasses with side-shields.
- **Skin Protection:** Handle with gloves. Gloves must be inspected prior to use.
- **Body Protection:** Complete suit protecting against chemicals.
- **Respiratory Protection:** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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Property	Value
Appearance	Black powder
Odor	Odorless
pH	5.0 - 7.0
Melting Point	535 °C (Decomposes)
Density	5.026 g/cm <sup>3</sup> (True density)
Bulk Density	0.8 - 1.2 g/cm <sup>3</sup>
Solubility in Water	Insoluble
Vapor Pressure	Negligible

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## SECTION 10: STABILITY AND REACTIVITY

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**10.1 Reactivity:** No data available. **10.2 Chemical Stability:** Stable under recommended storage conditions. **10.3 Possibility of Hazardous Reactions:** No data available. **10.4 Conditions to Avoid:** Avoid heat and moisture. **10.5 Incompatible**

**Materials:** Strong reducing agents, Strong acids, Organic materials. **10.6 Hazardous Decomposition Products:** Manganese oxides.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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- **Acute Toxicity:** LD50 Oral - Rat - > 3,478 mg/kg.
  - **Skin Corrosion/Irritation:** No data available.
  - **Serious Eye Damage:** No data available.
  - **Chronic Exposure:** Prolonged or repeated inhalation may cause damage to the central nervous system.
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## SECTION 12: ECOLOGICAL INFORMATION

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- **Toxicity:** No data available.
  - **Persistence and Degradability:** Not applicable for inorganic substances.
  - **Bioaccumulative Potential:** No data available.
  - **Mobility in Soil:** No data available.
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## SECTION 13: DISPOSAL CONSIDERATIONS

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

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- **DOT (US):** Not dangerous goods.
- **IMDG:** Not dangerous goods.
- **IATA:** Not dangerous goods.

- *(Note: MnO<sub>2</sub> is generally not regulated for transport unless it meets specific oxidizer criteria or is in a specific form).*
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## SECTION 15: REGULATORY INFORMATION

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- **SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
  - **SARA 313 Components:** This material contains Manganese Dioxide (CAS 1313-13-9) which is subject to reporting.
  - **TSCA Inventory:** Listed.
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## SECTION 16: OTHER INFORMATION

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- **HMIS Rating:** Health: 2, Flammability: 0, Physical Hazard: 1.
- **NFPA Rating:** Health: 2, Flammability: 0, Reactivity: 1.
- **Disclaimer:** The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use.