

Safety Data Sheet: Manganese Dioxide

Issue Date: March 13, 2026 **Revision Date:** N/A

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

- **Product Name:** Manganese Dioxide (MnO₂)
- **Synonyms:** Manganese(IV) oxide, Pyrolusite, Braunite, Hausmannite, Manganite, Psilomelane
- **CAS No.:** 1313-13-9
- **EC No.:** 215-202-6
- **REACH Registration No.:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

- **Identified Uses:** Rubber vulcanization acceleration, oxidizing agent, catalyst, pigment, dry cell batteries, ceramics, glass manufacturing, water treatment.
- **Uses Advised Against:** No specific uses advised against beyond general industrial hygiene practices.

1.3 Details of the Supplier of the Safety Data Sheet

- **Company Name:** BTLnewmaterial
- **Address:** Room 706, No. 154, Wuyi East Road, Niezhou Residential Committee, Caizichi Sub-district Office, Leiyang City, Hengyang City, Hunan Province, China
- **Email:** lixifirm@outlook.com
- **Phone/WhatsApp:** +8618273793022

- **Website:** manganesesupply.com

1.4 Emergency Telephone Number

- **Emergency Phone:** +8618273793022 (General)

2. Hazards Identification

2.1 Classification of the Substance or Mixture

According to Regulation (EC) No 1272/2008 (CLP) and GHS Rev. 8:

- **Acute Toxicity (Oral):** Category 4 (H302: Harmful if swallowed)
- **Acute Toxicity (Inhalation):** Category 4 (H332: Harmful if inhaled)
- **Specific Target Organ Toxicity - Repeated Exposure:** Category 2 (H373: May cause damage to organs through prolonged or repeated exposure - e.g., central nervous system, lungs)
- **Oxidizing Solids:** Category 2 (H272: May intensify fire; oxidizer) - *Note: Classification can vary based on specific grade and particle size. This is a general classification for some forms of MnO₂.*

2.2 Label Elements

- **Hazard Pictograms:**
 - GHS07 (Exclamation Mark) - for acute toxicity
 - GHS08 (Health Hazard) - for STOT-RE
 - GHS03 (Flame over Circle) - for oxidizing properties
- **Signal Word:** Warning
- **Hazard Statements:**
 - H302: Harmful if swallowed.
 - H332: Harmful if inhaled.
 - H373: May cause damage to organs (e.g., central nervous system, lungs) through prolonged or repeated exposure.
 - H272: May intensify fire; oxidizer.

- **Precautionary Statements:**

- **Prevention:**

- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P220: Keep away from clothing and other combustible materials.
- P260: Do not breathe dust/fume/gas/mist/vapours/spray.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.

- **Response:**

- P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- P304 + P340 + P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P314: Get medical advice/attention if you feel unwell.
- P370 + P378: In case of fire: Use water spray, foam, dry chemical or carbon dioxide to extinguish.

- **Storage:**

- P403 + P233: Store in a well-ventilated place. Keep container tightly closed.

- **Disposal:**

- P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other Hazards

- Fine dust may form explosive mixtures with air.
- Prolonged or repeated exposure to manganese dusts or fumes may cause manganism, a neurological disorder.

3. Composition/Information on Ingredients

3.1 Substances

| Chemical Name | CAS No. | EC No. | Concentration (%) | Classification (CLP/GHS)