

MATERIAL SAFETY DATA SHEET

Manganese Greensand

Section 01 - Chemical And Product And Company Information

Product Identifier Manganese sand filter material

Product Use Filter medium for water

Supplier Name Leiyang BTL New Material Co., Ltd.
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24-Hour Emergency Phone +86 18273793022

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients Manganese Dioxide 0.50%

CAS Number Manganese Dioxide 1313-13-9

Synonym (s) None

Section 03 - Hazard Identification

Inhalation Normal irritation due to dust.

Skin Contact / Absorption No effect

Eye Contact Causes mild irritation as any small particulate.

Ingestion No effect

Exposure Limits None established. Use nuisance dust levels as a guideline.

Section 04 - First Aid Measures

Inhalation..... Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek immediate medical attention.

Skin Contact / Absorption..... Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists

Eye Contact..... Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention

Ingestion..... No effect

Additional Information..... Not available

Section 05 - Fire Fighting

Conditions of Flammability..... Non-flammable

Means of Extinction..... Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

Flash Point..... Not applicable

Auto-ignition Temperature..... Not applicable

Upper Flammable Limit Not applicable

Lower Flammable Limit..... Not applicable

Hazardous Combustible Products... None known

Special Fire Fighting Procedures..... Wear self-contained breathing apparatus and protective equipment and clothing that have been certified as compliant by the corresponding national occupational safety standards.

Explosion Hazards..... Non-explosive

Section 06 - Accidental Release Measures

Leak / Spill..... Wear appropriate personal protective equipment. Ventilate area. Stop or reduce leak if safe to do so. Prevent material from entering sewers. Sweep up and place in a container for disposal.

Deactivating Materials..... None

Section 07 - Handling and Storage

Handling Procedures..... Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure.

Storage Requirements..... Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment

Eyes..... Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory..... Wear a dust mask when exposed to the dust.

Gloves..... Impervious gloves of chemically resistant material (rubber or PVC) should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Clothing..... Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing and dry thoroughly before reuse.

Footwear..... No special footwear is required other than what is mandated at place of work.

Engineering Controls

Ventilation Requirements..... Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other..... Use general ventilation to control dust.

Section 09 - Physical and Chemical Properties

Physical State..... Solid

Odor and Appearance..... Odourless purple-black sand-like granules

Odor Threshold..... Not applicable

Specific Gravity (Water=1)..... 2.4

Vapor Pressure (mm Hg, 20C)..... Not applicable

Vapor Density (Air=1)..... Not available

Evaporation Rate..... 0

Boiling Point..... Not available

Freeze/Melting Point..... Not available

pH..... Not available

Water/Oil Distribution Coefficient.... Not available

Bulk Density..... 1362 kg/m³

% Volatiles by Volume..... 0

Solubility in Water..... Insoluble

Molecular Formula..... MnO₂

Molecular Weight..... 86.94

Section 10 - Stability and Reactivity

Stability..... Stable

Incompatibility..... Incompatible with concentrated hydrochloric acid.

Hazardous Products of Decomposition.. Reacts with concentrated hydrochloric acid to produce poisonous chlorine gas.

Polymerization..... Will not occur

Section 11 - Toxicological Information

Irritancy..... None

Sensitization..... Not available

Chronic/Acute Effects..... Inhalation produces the same effect as normal over-exposure to dust.

Synergistic Materials..... Not available

Animal Toxicity Data..... Not available

Carcinogenicity..... Not considered to be carcinogenic (IARC and ACGIH).

Reproductive Toxicity..... Not available

Teratogenicity..... Not available

Mutagenicity..... Not available

Section 12 - Ecological Information

Fish Toxicity..... Not available

Biodegradability..... Not available

Environmental Effects..... Not available

Section 13 - Disposal Consideration

Waste Disposal..... It should be handled in accordance with the relevant regulations of the corresponding country, federation, province and/or local area, including the requirements of other local laws and regulations.

Section 14 - Transportation Information

TDG Classification

Class..... Not regulated

Group..... Not regulated

PIN Number..... Not regulated

Other..... Secure containers (full and/or empty) with suitable hold down devises during shipment.

Section 15 - Regulatory Information

Classification.....Not a controlled product

Note: The products listed in this Material Safety Data Sheet have been classified in accordance with the hazard standards stipulated in the relevant regulations. This Material Safety Data Sheet contains the information required by these regulations.

Section 16 - Other Information

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.