



Beersheba Mines & Minerals Pvt. Ltd.

Plot No.7/2, At:Bramhani, Post: Borkhedi, On Butibori-Jamb Road, Tah. & Dist: Nagpur, Mh, India.
GST No.:27AAGCB6791A1ZP Email: export@beershebas.co.in,

MATERIAL SAFETY DATA SHEET (MSDS) OF MANGANESE DIOXIDE

SECTION 1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Manufacturer & Supplier : BEERSHEBA MINES & MINERALS PRIVATE LIMITED
Address : Plot No.7/2, At: Bramhani, Post: Borkhedi, On Butibori-Jamb Road, Near Borkhedi Toll, Tah-Nagpur, Dist: Nagpur-441108, Maharashtra, India.
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Emergency Contact : Mr. Manojkumar Borker (+91-90093 17513)
Chemical Name : Manganese Di-Oxide (CAS : 1313-13-9), (RTECS No.:OP0350000)
Formula : MnO₂
Synonyms : Manganous Dioxide
% Range : 60 - 90%

SECTION 2 - HAZARDS IDENTIFICATION

Classification according to Regulation Acute toxicity:

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation

GHS Pictogram :



Signal Word : **Danger**

Hazard Statements :

H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary Statements :

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P280 Wear protective gloves/ protective clothing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a Poison Center or doctor/physician if you feel unwell.

Environmental hazard : None Listed.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Melting Point : Not Listed.
Density : 5.026 G/cm³
Solubility in water : Insoluble
Appearance & Odour : Solid powder (fine) This blackish or brown in color, no odor.

SECTION 4 - FIRST AID MEASURES

Effects and symptoms: Chills, fever, nausea, vomiting, coughing, weakness and headaches, Skin irritation

First aid

-Skin contact : Wash immediately with plenty of water and soap.
-Inhalation : Remove victim to fresh air. Clean nasal cavity with water. Give oxygen if breathing difficulty. Seek medical attention. If feeling unwell, immediately seek medical attention.
-Eye contact : Rinse immediately with clean water for 15 minutes. If feeling unwell, immediately seek medical attention.
-Ingestion : Immediately rinse mouth with water. Do not induce vomiting. Give large quantities of water or milk to drink. If feeling unwell, immediately seek medical attention.

Protection of rescue personnel: Avoid all unnecessary exposure. Use appropriate protection.



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SECTION 5 – FIRE, FIGHTING & EXPLOSION DATA

Fire	:	Non Combustible.
Flammability	:	Non Flammable
Flash point	:	Not Combustible
Extinguishing media	:	In case of fire in immediate vicinity use any extinguishing agent.
Protection of fire-fighters	:	Use breathing apparatus (self-contained breathing apparatus with full face shield). Wear suitable protective clothing.
Hazardous combustion and : Decomposition products	:	None.

SECTION 6 - ACCIDENTAL RELEASE MEASURES & SPILL LEAK PROCEDURES

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. Re-use or recycle waste.

SECTION 7 - HANDLING AND STORAGE

Handling & storing	:	Good housekeeping - store in a cool dry place - keep containers shut. Avoid making dust.
Packing Materials	:	All materials suitable

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection	:	Respiratory protection equipment necessary.
- Hand protection	:	Gloves Material: leather gloves, cotton gloves, rubber gloves.
- Skin protection	:	Work clothes.
- Eye protection	:	Chemical goggles or safety glasses.
Occupational Exposure Limits:	:	8 Hour
TLV-TWA [mg/m³]	:	0.2 (Dust)
Engineering measures	:	Mechanical ventilation is recommended

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Melting Point	:	535 ^o C .
Solubility in water	:	Insoluble
Appearance & Odour	:	Solid powder (fine), Dark brown - Green in color, no odor.

SECTION 10 - STABILITY & REACTIVITY DATA

Stability	:	Stable under ordinary conditions
Hazardous Reactions	:	Soluble in mineral acids. Dust explosion if mixed with fine organic material and exposed to naked flame. Violent reaction with H ₂ O ₂ , CaOH, and F ₂ .
Incompatibility(materials to avoid):	:	Not Applicable

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity	:	
Inhalation	:	Can Cause chills, fever, nausea, vomiting, coughing, weakness and headaches.
Dermal	:	Exposure can cause skin irritation.
Ingestion	:	(Oral rat) LD50 =9g/kg
Dermal irritation	:	Can cause irritation.
Eyes irritation	:	Not available.
Chronic toxicity	:	Not available.
Sensitization	:	Not available.
Carcinogenicity	:	Not listed by IARC and ACGIH as carcinogen.
Mutagenicity	:	Not available.
Reproductive toxicity	:	An experimental or tumorigen and mutagen.
Other toxicological information:	:	Eye, skin, respiratory kidney or liver diseases or disorders would be aggravated by repeated or prolonged exposure to this chemical. Persons with history of alcoholism, psychiatric, neurological or liver dysfunction would be expected to be at increased risk from exposure.



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SECTION 12 - ECOLOGICAL INFORMATION

Persistence and degradability	:	Not applicable.
Bio accumulative potential	:	Not applicable.
WGK(Germany)	:	1
Ecotoxicity	:	Not applicable
Mobility	:	Not applicable.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Comply with local regulations for disposal.

Waste of residues: This material and its container should be labeled H.

Contaminated packaging: Keep waste packaging separate. Waste should be disposed of in a permitted chemical waste facility.

SECTION 14 - TRANSPORT INFORMATION

HazardLabels	:	Not restricted.
H.S. Code	:	2820.1000
UN-No	:	Not Listed.
ADR/RID/ADNR/IMO-IMDG	:	Not restricted.
Shipping Name	:	Manganese Dioxide
Packaging Group	:	Not Applicable
IMDG-Marine Pollution	:	No
EMS No.	:	Not available.
MFAG Table	:	Not available.

SECTION 15 – REGULATORY INFORMATION

Classification according to Federal and State Regulations & OSHA:

TSCA 8(b) inventory: Manganese oxide

SARA 313 toxic chemical notification and release reporting: Manganese oxide

Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

GHS Pictogram:



Signal Word: **Danger**

Hazard Statements:

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H335:	May cause respiratory irritation.

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P280	Wear protective gloves/ protective clothing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a Poison Center or doctor/physician if you feel unwell.

SECTION 16 - OTHER INFORMATION

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