

MATERIAL SAFETY DATA SHEET (MSDS)

MANGANESE DIOXIDE (TECHNICAL)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : MANGANESE DIOXIDE (TECHNICAL)

Product code : M0130005000

Identification of the product : Manganese dioxide

CAS No: 1313-13-9
EC No: 215-202-6

EC No :215-202-6 Annex No :025-001-00-3

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification SUVCHEM
Chaitanya Tower 2nd Flori

Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062,

Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Xn; R20/22

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

2.2. Label elements

Labelling EC 67/548 or EC 1999/45



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2. Hazards identification -DSD (continued)

Symbol(s)

×

Symbol(s) : Xn : Harmful

R Phrase(s) : R20/22 : Harmful by inhalation and if swallowed.

S Phrase(s) : S2 : Keep out of the reach of children.

S25 : Avoid contact with eyes.

Contains : Manganese dioxide

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words : Warning

Hazard statements : H302 : Harmful if swallowed.

H332 : Harmful if inhaled.

Precautionary statements

• **General** : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• **Prevention** : P271: Use only outdoors or in a well-ventilated area.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response : P301+P312: IF SWALLOWED : Call a POISON CENTER or doctor if you feel

unwell.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

Contains : Manganese dioxide

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.



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3. Composition/information on ingredients

Substance / Preparation : Manganese dioxide

EC No :215-202-6 Annex No :025-001-00-3

Substance.

Substance name
Manganese dioxide

Contents

CAS No 1313-13-9

EC No 215-202-6 Annex No

REACH Ref.

Classification Xn; R20/22

Acute Tox. 4 (inhal) _ H332 Acute Tox. 4 (oral) _ H302

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest. Remove to fresh air and keep at

rest in a position comfortable for breathing. Call a POISON CENTER or doctor if

vou feel unwell.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a

POISON CENTER or doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation.

Swallowing a small quantity of this material will result in serious health hazard.

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture



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5. Fire-fighting measures (continued)

Hazardous combustion products: Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Use only outdoors or in a well-ventilated area. Avoid breathing dust, fume, gas,

mist, vapours, spray. Do not eat, drink or smoke when using this product. Wash

thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

closed when not in use.



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7. Handling and storage (continued)

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

• Hand protection : Wear protective gloves.

Eye protectionOthers: Chemical goggles or safety glasses.: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Colour : Black

Odour : Odorless

Odour threshold : No data available. pH value : No data available.

: 535 °C Melting point [°C] : N/A **Decomposition point [°C]** : N/A **Critical temperature [°C]** : N/A Auto-ignition temperature [°C] Flammability (solid, gas) : N/A : N/A Flash point [°C] : N/A **Boiling point [°C]** Initial boiling point [°C] : N/A Final boiling point [°C] : N/A **Evaporation rate** : N/A Vapour pressure [20°C] : N/A



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9. Physical and chemical properties (continued)

Vapour pressure mm/Hg : N/A
Vapour density : N/A
Density [g/cm3] : 5,06
Relative density, gas (air=1) : N/A
Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Insoluble in water

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.



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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

• Inhalation : Harmful if inhaled.

• **Dermal** : Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

Corrosion : Based on available data, the classification criteria are not met. Irritation : Based on available data, the classification criteria are not met. Sensitization : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. Mutagenicity Carcinogenicity : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. **Toxic for reproduction** : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure : Based on available data, the classification criteria are not met. **Aspiration hazard**

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.



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13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

General information : Not regulated.

14.2. Sea transport (IMDG) [English only]

General information : Not regulated.

14.3. Air transport (ICAO-IATA) [English only]

General information : Not regulated.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the

: Ensure all national/local regulations are observed.

substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions. : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

16. Other information

Revision - See : *

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006



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In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

DISCLAIMER:

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