

MATERIAL SAFETY DATA SHEET**Product Name:** Manganese**CAS No.:** 7439-96-5**Version:** 0**1. Identification**

Product Code : 93403
Company Name : Advent Chembio Private Limited
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2. Hazards Identification

Hazard classification : Not classified
Labels elements
Hazard symbol : No symbol
Signal word : No Signal word
Hazard statement : Not applicable
Precautionary statement : Not applicable
Supplemental Hazard Statements : None

3. Composition/information on ingredients

Ingredient : NA
CAS No. : 7439-96-5
Percent : NLT 99.9%
Formula : Mn
Molecular Weight : 54.94 g/mol

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4. First Aid Measures**Description of first aid measures**

- General advice** : Consult a physician. Show this safety data sheet to the doctor in attendance.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
- Eye contact** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Swallowed** : Get medical advice/attention if you feel unwell. Rinse mouth.
- Most important symptoms and effects, both acute and delayed** : No data available
- Indication of any immediate medical attention and special treatment needed** : No data available

5. Fire fighting measures**Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Special hazards arising from the substance or mixture** : Manganese/manganese oxides
- Advice for firefighters** : Wear self contained breathing apparatus for firefighting if necessary.

6. Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures** : Avoid dust formation. Avoid breathing vapours, mist or gas.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Discharge into the environment must be avoided.

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Methods and materials for containment and cleaning up : Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

Precautions for safe handling : Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities : Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Moisture sensitive. Handle and store under inert gas.

8. Exposure Controls / Personal Protection

Exposure limit : No data available

Appropriate engineering controls : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Respiratory protection : Dust respirator. Follow local and national regulations

Hand protection : Protective gloves

Eye protection : Safety glasses. A face-shield, if the situation requires.

Skin and Body Protection : Protective clothing. Protective boots, if the situation requires.

9. Physical and Chemical Properties

Appearance : Grey.

Odor : No data available

pH : No data available

Melting point/freezing point : 1.244 °C - lit.

Initial boiling point and boiling range : 1.962 °C - lit.

Flash Point : No data available

Vapor pressure : No data available

Vapor density : No data available

Relative density : 7.3 g/mL at 25 °C

Solubility in water : No data available

Solubility (other) : No data available

10. Stability and Reactivity

Reactivity : No data available

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : No data available

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Conditions to avoid	:	Avoid moisture.
Incompatible materials	:	acids, Halogens, Bases, Phosphorus, Sulphur oxides, Hydrogen peroxide, Oxidizing agents, Nitric acid, Sodium Hydroxide, Carbon dioxide (CO ₂), Nitryl Flouride, Steam
Hazardous decomposition products	:	Hazardous decomposition products formed under fire conditions. - Manganese/manganese oxides

11. Toxicological Information**Information on toxicological effects**

Acute toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitization	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity		
IARC	:	No data available
NTP	:	No data available
OSHA	:	No data available
Reproductive toxicity	:	No data available
Route of Exposure	:	No data available
Signs and Symptoms of Exposure	:	No data available

12. Ecological Information

Toxicity	:	No data available
Persistence and degradability	:	No data available
Bioaccumulative potential	:	No data available
Mobility in soil	:	No data available.
Other adverse effects	:	Toxic to aquatic life.

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- Disposal instructions** : Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging** : Dispose of as unused product.

14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT			Not dangerous goods		
IMDG			Not dangerous goods		
IATA			Not dangerous goods		

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. Other Information**Issue Date** :19/07/2019**Version** : 0

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