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MATERIAL SAFETY DATA SHEET

CAS No.: 10034-96-5

Version: 0

#### 1. Identification

**Product Code** : 90183, 90452

**Product Name:** Manganous sulphate monohydrate

Company Name : Advent Chembio Private Limited

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**WEBSITE** : www.adventchembio.com

**Company Phone Number**: 022-27690837

## 2. Composition/Information on Ingredients

IngredientCAS NoPercentMANGANOUS SULPHATE10034-96-598-100%

MONOHYDRATE

#### 3. Hazards Identification

### **Hazard classification**

Health hazards

Specific target organ toxicity -

repeated exposure

**Environmental hazards** 

Chronic hazards to the aquatic

environment Labels elements Hazard symbol : Category 2

: Category 2



Signal word : Warning

**Hazard statement** : May cause damage to organs through prolonged or repeated

exposure.

Toxic to aquatic life with long lasting effects.

**Precautionary statement** 

**Prevention**: Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the

environment.

**Response**: Get medical advice/attention if you feel unwell. Collect spillage.

Storage : Store in a well-ventilated place. Keep container tightly closed. Store





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locked up.

**Disposal** 

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations,

and product characteristics at time of disposal.

Other hazards which do not result in GHS classification

None.

#### 4. First Aid Measures

Get medical advice/attention if you feel unwell. If medical advice is **General information** 

needed, have product container or label at hand. Show this safety

data sheet to the doctor in attendance.

Do NOT induce vomiting. Immediately call a POISON CENTER or **Ingestion** 

doctor/physician. If vomiting occurs, keep head low so that stomach

content doesn't get into the lungs.

Move to fresh air. If breathing stops, provide artificial respiration. If Inhalation

breathing is difficult, give oxygen. Call a POISON CENTER or

doctor/physician if you feel unwell.

Skin contact Immediately remove contaminated clothing and shoes and wash skin

> with soap and plenty of water. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean

contaminated shoes.

Immediately flush with plenty of water for at least 15 minutes. If Eye contact

easy to do, remove contact lenses. Call a physician or poison control center immediately. In case of irritation from airborne exposure,

move to fresh air. Get medical attention immediately.

Most important symptoms/effects,

acute and delayed

**Indication of immediate medical** 

attention and special treatment

needed

May cause skin and eye irritation.

Treat symptomatically. Symptoms may be delayed.





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#### 5. Fire fighting measures

General fire hazards : No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media**: Use fire-extinguishing media appropriate for surrounding materials.

None known.

Unsuitable extinguishing media

**Specific hazards arising from the** : During fire, gases hazardous to health may be formed.

chemical

Special protective equipment and precautions for firefighters

**Special fire fighting procedures** : Move containers from fire area if you can do so without risk. Use

water spray to keep fire-exposed containers cool. Cool containers

exposed to flames with water until well after the fire is out.

Special protective equipment for

fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

: Keep unauthorized personnel away. Use personal protective equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Methods and material for containment and cleaning up

: Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual contamination.

Dike far ahead of larger spills for later disposal.

Notification Procedures : Dike for later disposal. Prevent entry into waterways, sewer,

basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

**Environmental precautions** : Do not contaminate water sources or sewer. Prevent further leakage

or spillage if safe to do so. Avoid discharge into drains, water

courses or onto the ground.





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#### 7. Handling and Storage

**Precautions for safe handling**: Use personal protective equipment as required. Avoid contact with

eyes, skin, and clothing. Avoid inhalation of dust. Wash thoroughly after handling. Obtain special instructions before use. Do not handle

until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities

: Keep containers tightly closed. Store in cool, dry place. Store in a

well-ventilated place.

### 8. Exposure Controls Personal Protection

**Control parameters** 

Occupational exposure limits : None of the components have assigned exposure limits.

**Appropriate engineering controls** : No data available.

Individual protection measures, such as personal protective equipment

General information : Good general ventilation (typically 10 air changes per hour) should be

used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation

equipment.

**Eye/face protection** : Use tight fitting goggles if dust is generated.

**Hand protection** : Wear protective gloves.

Other : Wear suitable protective clothing.

**Respiratory protection** : In case of inadequate ventilation use suitable respirator. During dust-

raising work: Dust and mist respirator.

**Hygiene measures** : Provide eyewash station and safety shower. Always observe good

personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that

cannot be cleaned.





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### 9. Physical and Chemical Properties

**Appearance** : Pale pink Solid Powder.

Odor : Odorless

**pH** : No data available.

Melting point/freezing point : 700 °C

**Initial boiling point and boiling** : 850 °C Decomposes

range

Flash Point : Not applicable
Vapor pressure : No data available.
Vapor density : No data available.
Relative density : 2.95 (20 °C)
Solubility in water : Soluble

Solubility (other): No data available.Formula: MnSO4.H2OMolecular Weight: 169.02 g/mol

## 10. Stability and Reactivity

**Reactivity**: No dangerous reaction known under conditions of normal use.

Chemical stability: Material is stable under normal conditions.Possibility of hazardous reactions: Hazardous polymerization does not occur.Conditions to avoid: Contact with incompatible materials.Incompatible materials: Strong oxidizing agents. Powdered metals.

**Hazardous decomposition products**: Thermal decomposition may produce oxides of sulfur.

### 11. Toxicological Information

#### Information on likely routes of exposure

**Ingestion**: Irritating. May cause nausea, stomach pain and vomiting.

**Inhalation**: May cause irritation to the respiratory system.

**Skin contact** : May cause irritation.

**Eye contact** : Dust in the eyes will cause irritation.

Information on toxicological effects

**Acute toxicity (list all possible routes of exposure)** 

Oral Product : No data available.

Dermal Product : No data available.

Inhalation Product : No data available.

Repeated dose toxicity Product : No data available.

Skin corrosion/irritation Product : May cause skin irritation.

**Serious eye damage/eye irritation** : May irritate eyes.





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**Product** 

**Respiratory or skin sensitization** 

**Product** 

: Not a skin sensitizer.

**Carcinogenicity Product** 

: This substance has no evidence of carcinogenic properties.

IARC Monographs on the

**Evaluation of Carcinogenic Risks** 

to Humans DIOXANE

**US. National Toxicology Program** 

(NTP) Report on Carcinogens

**DIOXANE** 

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-

1050

No carcinogenic components identified

No carcinogenic components identified

No carcinogenic components identified

Germ cell mutagenicity

In vitro Product
 In vivo Product
 Reproductive toxicity Product
 No mutagenic components identified
 No components toxic to reproduction.

Specific target organ toxicity -

single exposure Product

Specific target organ toxicity -

repeated exposure Product Aspiration hazard Product

Aspiration hazard Produc Other effects Brain. - May cause damage to organs through prolonged or

repeated exposure.

None known.

Not classifiedNone known.

#### 12. Ecological Information

**Ecotoxicity** 

Acute hazards to the aquatic environment:

Fish Product : No data available.
Aquatic invertebrates Product : No data available.

Chronic hazards to the aquatic environment:

Fish Product:No data available.Aquatic invertebrates Product:No data available.Toxicity to Aquatic Plants Product::No data available.

Persistence and degradability

**Biodegradation Product**: The product is not expected to be biodegradable.

**BOD/COD ratio Product** : No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** 

: No data available on bioaccumulation.

Product

Partition coefficient n-octanol /

water (log Kow) Product

: No data available.

**Mobility in soil** : No data available.

Other adverse effects : Toxic to aquatic life with long lasting effects.





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### 13. Disposal consideration

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state,

or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated packaging Since emptied containers retain product residue, follow label

warnings even after container is emptied.

### 14. Transport Information

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

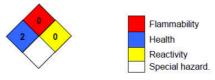
### 15. Regulatory Information

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

#### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe





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