

Material Safety Data Sheet



(Division of Titan Biotech Ltd.)

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MANGANESE (II) SULPHATE (MONO)

Section 1: Chemical Product Identification

Product Name: MANGANESE (II) SULPHATE (MONO)

Product Code: 702

CAS#: 10034-96-5

CI#: NA

Synonym: NA

Chemical Formula: NA

Section 2: Composition/Information on Ingredients

Ingredients	CAS No.	% by Weight
MANGANESE (II) SULPHATE (MONO)	10034-96-5	100%

Section 3: Hazards Identification

RPhrases: R48/20/22

R51/53

SPhrases: S22/61

RTECS: OP0893500



Hazard: Ingestion and inhalation/skin penetration by these substances is harmful to human health. Non-recurring, recurring or lengthy exposure may cause irreversible damage.

Caution: Avoid body contact, do not breathe vapors and in cases of unease consult a doctor.



Hazard: These substances are harmful to aquatic as well as non-aquatic organisms. Lengthy exposure may have detrimental effect.

Caution: Avoid release to environment.

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Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

Skin Contact:

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention.

Serious Skin Contact:

Not available

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Not available.

Ingestion:

If swallowed, wash out mouth with water provided person is conscious. Seek immediate medical attention.

Serious Ingestion: Not available

Section 5: Fire Fighting Measures

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam. Use agent most appropriate to extinguish fire.

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Section 6: Accidental Release Measures

Procedures for Cleanup: Stop release if possible to do so safely. Contain spill, isolate hazard area, and deny entry. Sweep up or vacuum. Place contaminated material in suitable, labeled containers for final disposal. Dispose of waste material consistent with the requirements of waste disposal authorities.

Personal Precautions: Gloves and coveralls or other protective clothing are recommended for persons responding to an accidental release. Close-fitting safety goggles may be necessary in some circumstances to prevent eye contact.

Environmental Precautions: This product can pose a threat to the environment. Contamination of soil and water should be prevented. Keep spillage and runoff from storage areas from entering soil, streams or sewers.

Section 7: Handling and Storage

Precautions:

Protect from physical damage. It is good practice to keep it in container closed when not in use. Avoid generating dust and the release of dust into the workplace. Good housekeeping is important to prevent accumulations of dust. Always practice good personal hygiene. Refrain from eating, drinking, or smoking in work areas.

Storage:

Store in a cool, well ventilated area and protect direct sunlight.

Section 8: Exposure Controls/Personal Protection

Personal Protection: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.

Personal Protection in Case of a Large Spill:

Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Exposure Effect: Not available

Section 9: Physical and Chemical Properties

Physical state :	Solid
Color:	Very Light Pink colour powder
pH:	Not available
Boiling Point:	Not available
Melting Point:	Not available
Solubility:	Soluble in water

Section 10: Stability and Reactivity Data

Stability:	Stable under recommended storage condition
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Section 11: Toxicological Information

Acute effects: May be harmful if swallowed.

Exposure can cause: Stomach pain, vomiting, diarrhea. Prolonged or recurring exposure may cause allergy to sensitive individuals.

RTECS No.: RTECS: OP0893500

For detailed information, RTECS may be referred

Section 12: Ecological Information

Not available

Section 13: Disposal Consideration

Do not wash the material down drain. Put uncontaminated material back into the process if at all possible. Place contaminated material in suitable, labeled containers for disposal. Dispose of waste material consistent with the requirements of waste disposal authorities.

Section 14: Transport Information

DOT Classification: Class 9

Un No: 3077

Section 15: Regulatory Information

Risk Phrases: Harmful if swallowed.

Risk Phrases: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases: Do not breathe dust.

Safety Phrases: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Safety Phrases: Wear suitable protective clothing and eye / face protection.

Safety Phrases: The material and its container should be disposed of, as hazardous waste.

Safety Phrases: Avoid release to the environment. Refer to the special instructions / safety data sheets.



Significance of signs: Ingestion and inhalation/skin penetration by these substances is harmful to human health. Non-recurring, recurring or lengthy exposure may cause irreversible damage.

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Significance of signs: These substances are harmful to aquatic as well as non-aquatic organisms. Lengthy exposure may have detrimental effect.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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