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THE BTTCO OVERSEAS

A Govt. of India Recognized *Star Export House*

from local roots to global routes

Material Safety Data Sheet
MANGANESE SULPHATE MONOHYDRATE

Section 1 - Chemical Product and Company Identification

MSDS Name : MANGANESE SULPHATE MONOHYDRATE
Chemical Name : Manganese (II) Sulfate Monohydrate
Synonyms : Manganese (II) Sulphate Monohydrate, Manganous Sulphate Monohydrate, Manganese Sulphate/ Sulfate Monohydrate, Manganese Monosulfate Monohydrate
Chemical Formula : $MnSO4.H_2O$
Molecular Weight : 169.02 g/mol
CAS No : 10034-96-5
UN No : UN 3077
Hazchem Code : 2Z
ERG No : 171
EAC : 2Z

Company Identification : The BTTCO Overseas
6, Ashirvad Complex, Nr. Sardar Patel Seva Samaj Hall,
Navrangpura, Ahmedabad – 380009

Telephone Number : +91-94265 96891
Contact Person : Mr. Dinesh Lunkad

Section 2 Composition, Information on Ingredients

Chemical Name/ Ingredient	CAS #	Percent
Manganous Sulfate, Monohydrate	10034-6-5	95-100%

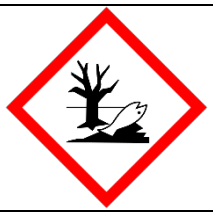
Section 3 Hazards Identification

Classification of the substance or mixture
Specific target organ toxicity - repeated exposure (Category 2)
Chronic aquatic toxicity (Category 2)

Signal Word /HAZARD : Danger
Hazard statements

1. May cause damage to organs through prolonged or repeated exposure, category 2
2. Eye damage, category 1 Toxic to aquatic life with long lasting effects. Category 2

GHS label elements:

Pictograms:			
	GHS08 Serious Health hazard	**GHS09 Hazardous to the Environment**	**GHS05 Corrosive**

Precautionary statements

General : Wear Eye/ Face Protection. Do Not Breath dust, Fame Gas Mist, Vapor, Spray. Do not Eat Drink or Smoke when using this product. If you feel unwell, seek medical advice or attention immediately. Avoid release to the Environment. Collect spillage store Lock up. Dispose in accordance with Local state federal regulation.

Section 4 First Aid Measures

General Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Eye Contact : Rinse eyes 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.

Skin Contact : Remove affected clothing and immediately wash all exposed skin area with mild soap and water, followed by warm water rinse.

Inhalation : Remove victim to fresh air. Clean nasal cavity with water. Seek medical attention if discomfort or irritation persists.

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

Symptoms : Chills, fever, nausea, vomiting, coughing, weakness and headaches, skin irritation.

Section 5 Fire Fighting Measures

Fire Extinguishing Media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

FIRE FIGHTING : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering environment. Use NIOSH-approved respiratory protection/breathing apparatus with full face shield. Wear suitable protective clothing.

Hazardous combustion and Decomposition products : None

Section 6 - Accidental Release Measures

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. Reuse or recycle waste.

Section 7 - Handling and Storage

Handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Avoid moisture

Storage : Store in a cool location. Provide ventilation for containers. Store away from foodstuffs.

Section 8 - Exposure Controls, Personal Protection

Control Parameters : USA ACGIH ACGIH TWA (mg/m³) 0.2 mg/m³
USA OSHA OSHA PEL (Ceiling) (mg/m³) 5 mg/m³

Engineering Controls : Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation.

Personal protective Equipment

Respiratory protection : Wear appropriate mask.

Eye protection : Chemical goggles or safety glasses.

Skin protection : Wear protective gloves.

Protective Equipment : Avoid all unnecessary exposure.

OTHER : Do not eat, drink or smoke during use.

Section 9 - Physical and Chemical Properties

Form : Solid granular powder(fine)
Melting Point : 700 °C
Solubility in water : Soluble
Odor : None
Density : 2.95 g/cm3
Specific Gravity : 3:25

Section 10 - Stability and Reactivity

Stability : Stable under normal conditions of storage

Possibility of hazardous Reactions : Hazardous decomposition products formed under fire conditions, - Sulphur oxides, Manganese/manganese oxides

Incompatibility with various substances : Strong oxidizing agents. Avoid moisture

Section 11 - Toxicological Information

LD50 oral rat	: 2150 mg/kg
Target Organs	: May cause damage to organs through prolonged or repeated exposure
Acute Toxicity	: Skin May cause skin irritation
Eyes	: Causes serious eye irritation
Inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	: Harmful if swallowed. Danger of serious damage to health.
Carcinogenicity	: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Mutagenicity	: Not available.
Reproductive toxicity	: No additional information

Section 12 - Ecological Information

Persistence and Degradability	: Not applicable.
Bio accumulative potential	: Not applicable.
Ecotoxicity	: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Mobility	: Not applicable.

Section 13 - Disposal Considerations

Waste Disposal	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to comply with local, state and federal regulations. Avoid release to the environment. See information on label.

Section 14 - Transport Information

DOT	: Not Regulated

IMDG/IMO/IATA

Proper Shipping Name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains Manganese Sulphate Monohydrate)

UN No	: UN 3077
CAS No	: 10034-96-5
EMS No	: F-A, S-F
ERG No	: 171
EAC/ HAZCHEM	: 2Z
IMDG-Packaging Group	: Packing Group III
Marine Pollutant	: Yes (Classified as a Marine Pollutant / Environmentally Hazardous)
Class	: Class 9 (Miscellaneous Dangerous Substances and Articles)
Packing Group	: Packing Group III
Subsidiary Risks	: None
Special provisions	: None
Limited Quantities	: 5 Kg or None
Label Required	: Class 9 Hazard Label AND Marine Pollutant Mark

	
Class 9 (Miscellaneous dangerous substances and articles)	**GHS09 Hazardous to the Environment**

Section 15 -Regulatory Information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	: Not regulated.
CERCLA Hazardous Substance List (40 CFR 302.4)	: Not listed.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	: Not listed.
SARA 304 Emergency release notification	: Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard	-	No
	Delayed Hazard	-	No
	Fire Hazard	-	No
	Pressure Hazard	-	No
	Reactivity Hazard	-	No

SARA 302 Extremely hazardous substance	:	No
SARA 311/312 Hazardous chemical	:	No

Section 16 - Other Information

NFPA Ratings : Health : 2
Flammability : 0
Reactivity : 0
4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight,
0 = Insignificant

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