AUSTRALIAN CHEMICAL REAGENTS

SAFETY DATA SHEET

Date Prepared: December 2021
Version No: 2

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Manganous Sulphate solution
Product Code:	0487
Other Names:	Nil
Uses:	Analytical Reagent
Supplier:	Australian Chemical Reagents 38-50 Bedford Street Gillman SA 5013
Contacts:	Telephone: 61 08 84402000 Fax: 61 08 84402001 Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm

2. HAZARDS INFORMATION

GHS Classification

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Specific Target Organ Toxicity - Repeated Exposure: Category 2

Signal Word(s) WARNING

Pictogram(s)



Hazard Statement (s)

H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

Preventative

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment..

Response

P314 Get medical advice/attention if you feel unwell

Storage

Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients :

Chemical Entity	CAS No	Proportion
Manganese sulphate monohydrate	[10034-99-8]	36.4%
Water	[7732-18-5]	to 100%

4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

Swallowed :

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist.

Eye :

Immediately hold eyelids open and flood with water for at least 15 minutes. Seek medical advice if effects persist. Show this SDS to medical practitioner.

Skin :

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Seek medical advice if effects persist. Launder clothing before reuse.

Inhaled :

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Use measures suitable for extinguishing surrounding fire.
Small fire: Use dry chemical, CO2, water spray or foam.
Large fire: Use water spray, fog or foam.

Hazards From Combustion Products:

Solution willl not burn or support combustion. .

Precautions For Fire Fighters and Special Protective Equipment:

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Prevent from entering waterways. Restrict access to area. Remove chemicals that can react with the spilled material.

Methods and materials for containment and clean up:

Wear protective clothing when dealing with spills. Use inert material such as sand or earth to contain spill or leak. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

Conditions for Safe Storage:

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:
SWA – Manganese sulphate monohydrate 1mg/m^3 TWA (Manganese, dust & compounds (as Mn))&

Biological Limit Values: No data available.

Engineering Controls:
Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations well below exposure standards with extraction ventilation.

Personal Protective Equipment (PPE):
The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :	Pink to red liquid
Flash Point (^{0}C) :	Not flammable
Flammability Limits (%) :	Not flammable
Solubility in Water (g/L) :	Soluble

10. STABILITY AND REACTIVITY

Chemical stability:
Stable.
Incompatible materials:
Strong oxidizers.
Hazardous decomposition products:
Refer to section 5 (Fire Fighting Measures).
Hazardous reactions:
Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Health Effects:
Swallowed May be harmful if swallowed. Ingestion of dust may irritate the gastric tract causing nausea, abdominal pain, diarrhea, lethargy, vomiting and possible coma. Inorganic manganese salts are poorly absorbed through the intestines, but may produce hypoglycemia and decreased calcium blood levels should absorption occur.

Eye : May be harmful if in contact with the eyes. Symptoms may include of irritation, redness, itching, and pain resulting in a mild abrasion.

Skin : May be harmful if absorbed through the skin. Symptoms may include of irritation, redness, itching, and pain.

Inhaled : .

Chronic Effects: Chronic manganese poisoning can result in excessive ingestion exposure with early symptoms including inflammation of the respiratory tract, frequent nose bleeds, headaches, sluggishness, sleepiness, dermatitis, irritability and liver enlargement followed by progressive deterioration of the central nervous system.
In more severe cases, the illness closely resembles Parkinsons' Disease with symptoms including weakness of the legs, increased muscle tension, hand tremor, slurred speech, muscle cramps, spastic gait, mental deterioration, emotional/sexual disturbances, uncontrollable laughter, various blood changes, and manganese psychosis (loss of contact with reality).

12. ECOLOGICAL INFORMATION

Ecotoxicity:
H411 Toxic to aquatic life with long lasting effects.
Persistence and degradability:

No data available.
Mobility:
No data available.

13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

14. TRANSPORT INFORMATION

UN Number: 3082
UN Proper Shipping Name: ENVIRONMENTA HAZARDOUS SUBSTANCE, LIQUID, N.O.S>
(Manganese sulphate monohydrate)
Class and subsidiary risk(s): 9
Packing Group: III
Hazchem Code: •3Z
Special precautions for user : Nil

15. REGULATORY INFORMATION

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP):
Not Scheduled

16. OTHER INFORMATION

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