SDS 3127 Manganese Chloride

Date of Issue/re-issue: 25/02/2019

Expiry: 01/03/2024

<u>1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER</u>

ECP Limited

Company Name

Address:

39 Woodside Ave. Northcote. Auckland . New Zealand

Emergency Tel: 0800 243 622 or			Tel +64 9 480 4386			FAX +64 9 480 4385		
0800 CHE M CA LL								
Product	Manganese	(II) Chlorid	Chloride Tetrahydrate			le	3127	
CAS#	HSNO#	UN #	DG	Packing group #		Tracking?	Handlers	
			Class/es				Certificate?	
13446-34-9	HSR004812	3077	9			No	No	

Recommended use: Laboratory Investigations

2. Hazards identification

2.1 GHS Classification
Acute toxicity, Oral (Category D)
Aquatic toxicity (Acute or Chronic) (Category B)
2.2 GHS Label elements, including precautionary statements



Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

P391 Collect spillage.

Disposal

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

2.3 Other hazards

None

3. Composition/information on ingredients

Substance/Mixture: Substance

3.1 Substances

Hazardous components

Component	Classification	Concentration			
Manganese dichloride tetrahydrate					
6.1 D; 9.1 B; H302, H411		<= 100%			

4. First aid measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

Ifswallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

4.3 Indication of any immediate medical attention and special treatment needed No data available

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

6.2 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.

6.3 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

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

No data available

8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits Table

Component	CAS No	Value	Control	Basis	
			parameters		
Manganese	13446-	WES-	1 mg/m ³	New Zealand. Workplace Exposure	
dichloride	34-9	TWA		Standards for Atmospheric Contaminants	
tetrahydrate					

8.2 Exposure controls

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

Eye/face protection

Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards.

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Respiratory protection

For nuisance exposures use a particle respirator. For higher level protection use respirator cartridges. Use respirators and components tested and approved under appropriate government standards.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance
Form: crystalline
Colour: off-white, dark red
b) Odour
No data available
c) Odour Threshold
No data available
d) pH
4.0 - 6 at 99 g/l at 25 °C
e) Melting point/freezing point
Melting point/freezing point
Melting point/range: 58 °C - lit.
f) Initial boiling point and boiling range
No data available
g) Flash point

No data available h) Evaporation rate No data available i) Flammability (solid, gas) No data available j) Upper/lower flammability or explosive limits No data available k) Vapour pressure No data available I) Vapour density No data available m) Relative density 1.913 g/cm³ n) Water solubility 99 g/l at 20 °C - completely soluble o) Partition coefficient: n-octanol/water No data available p) Auto-ignition temperature No data available q) Decomposition temperature No data available r) Viscosity No data available

10. Stability and reactivity

10.1 Reactivity
No data available
10.2 Chemical stability
No data available
10.3 Possibility of hazardous reactions
No data available
10.4 Conditions to avoid
No data available
10.5 Incompatible materials
Sodium/sodium oxides, strong acids, potassium, zinc
10.6 Hazardous decomposition products
Hazardous decomposition products formed under fire conditions
Hydrogen chloride gas, manganese/manganese oxides
Other decomposition products
No data available

11. Toxicological information

11.1 Information on toxicological effects Acute toxicity LD50 Oral - Rat - 1,484 mg/kg Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity Laboratory experiments have shown mutagenic effects. Carcinogenicity No data available IARC: 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. **Reproductive toxicity** No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion Harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Additional Information RTECS: 009650000

12. Ecological information

12.1 Toxicity
Toxicity to daphnia and other aquatic invertebrates
Remarks: No data available
12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
No data available
12.6 Other adverse effects
Toxic to aquatic life with long lasting effects.

13. Disposal considerations

13.1 Waste treatment methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
Contaminated packaging

Dispose of as unused product.

14. Transport Information Table

	•	ADR/RID -	IMDG	IATA – DGR			
		European packaging	International	International Air Travel			
		certification	Maritime Dangerous	Association – Dangerous			
			Goods Code	Goods Regulations			
14.1	UN Number	3077	3077	3077			
14.2	UN Proper Shipping	ENVIRONMENTALLY	ENVIRONMENTALLY	ENVIRONMENTALLY			
	name	HAZARDOUS	HAZARDOUS	HAZARDOUS SUBSTANCE,			
		SUBSTANCE, SOLID,	SUBSTANCE, SOLID,	SOLID, N.O.S. (Manganese			
		N.O.S. (Manganese	N.O.S. (Manganese	dichloride tetrahydrate)			
		dichloride	dichloride				
		tetrahydrate)	tetrahydrate)				
14.3	Transport Hazard	9	9	9			
	Class						
14.4	Packaging group	=	III	111			
14.5	Environmental	No	No	No			
	Hazards						
14.6	Special precautions	None					
	for user						
14.7	Further	EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single					
	information	packagings and combination packagings containing inner packagings with					
		Dangerous Goods > 5L for liquids or > 5kg for solids.					

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulatory information

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group Standard 2006

Tracking Required: not required

Approved Handler Cert.: not required

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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