

SAFETY DATA SHEET

Reef Zlements Manganese

Page: 1

Compilation date: 21/11/2020

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: Reef Zlements Manganese

MANGANESE (II) CHLORIDE TETRAHYDRATE (less than 0.1%) **CAS number:** 13446-34-9

EINECS number: 231-869-6

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section according to EU Regulation 2015/830.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Aquarium Water Supplement

1.3. Details of the supplier of the safety data sheet

Company name: Reef Zlements Limited
Kemp House, 152 - 160 City Road
London EC1V 2NX
United Kingdom

Tel: +44 7898329990

Email: info@reef-zlements.com

1.4. Emergency telephone number

Emergency tel: N/A

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Based on available data, the classification criteria are not met

Most important adverse effects:

2.2. Label elements

Label elements under CLP:

Hazard statements: Based on available data, the classification criteria are not met

Signal words: Not required

Hazard pictograms: Not required

Precautionary statements: Keep out of reach of children. Not for human consumption

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SAFETY DATA SHEET

Reef Elements Manganese

Page: 2

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

P314: Get medical advice/attention if you feel unwell.

2.3. Other hazards

Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: MANGANESE (II) CHLORIDE TETRAHYDRATE (less than 0.1%)

CAS number: 13446-34-9

EINECS number: 231-869-6

Contains: Formula : Cl₂Mn · 4H₂O

Molecular weight : 197.91 g/mol

Section 4: First aid measures

4.1. Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Get medical attention.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Get medical attention.

Inhalation: Remove the victim from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: No data available.

Eye contact: There may be irritation and redness.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: No data available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: N/A

[cont...]

SAFETY DATA SHEET

Reef Zlements Manganese

Page: 3

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures:

6.4. Reference to other sections

Reference to other sections:

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid contact with skin and eyes. Avoid formation of aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. Light sensitive. Air sensitive.

Suitable packaging: Not applicable.

7.3. Specific end use(s)

Specific end use(s): No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

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SAFETY DATA SHEET

Reef Elements Manganese

Page: 4

8.2. Exposure controls

Hand protection: Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Wash and dry hands.

Eye protection: Safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Respiratory protection: Suitable respirator. Be sure to use an approved/certified equipment or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Environmental: Do not let product enter drains.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Transparent

Odour: Odourless

Boiling point/range°C: No information available

Melting point/range°C: Not applicable

Vapour pressure: No information available

Relative density: No information available

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available.

10.2. Chemical stability

Chemical stability: No data available.

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SAFETY DATA SHEET

Reef Elements Manganese

Page: 5

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: No data available.

10.5. Incompatible materials

Materials to avoid: No data available.

10.6. Hazardous decomposition products

Haz. decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Acute toxicity - Ingestion Harmful if swallowed.

LD50 Oral - Rat - 766 mg/kg

Remarks: Behavioral:Tremor. Diarrhoea Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

LD50 Dermal - Rat - > 2,000 mg/kg

Relevant hazards for substance:

Hazard	Route	Basis
No data available		

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
FISH	96H LC50	> 1,000	mg/l
DAPHNIA	48H EC50	4.7	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

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SAFETY DATA SHEET

Reef Zlements Manganese

Page: 6

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Dispose using a licensed waste treatment facility

Recovery operations: Not applicable.

Disposal of packaging: Dispose of as unused product.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

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SAFETY DATA SHEET

Reef Zlements Manganese

Page: 7

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.