Vickers Laboratories Ltd - Safety Data Sheet

1611

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 2.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 1611

Product Name MANGANESE (II) SULPHATE H2O pure

CAS Number 10034-96-5

REACH Registration No 01-2119456624-35-XXXX

Molecular Formula Mnso ... 0 =169.01

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Serious eye damage/irritation, category 1 Spec target organ tox - repeat, category 2

Hazard to aquatic environment, category 2

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure.

H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 1611



Hazard Statements Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to

aquatic life with long lasting effects.

Precautionary Statements Do not breathe dust. Avoid release to the environment.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Manganese Dioxide	1313-13-9 215-202-6		>87%	Acute Tox. 4 (O), Acute Tox. 4 (I), STOT RE 2

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. If conscious give plenty of water to drink. OBTAIN

MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aider

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

No further relevant information available.

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

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust.

6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

Minor Spillage Wash area down with copious amounts of water.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

ĺ	Component	CAS No	Concentration	Workplace Exposure Limits			
				Long Term (8hr TWA)		Short Term 15min period)	
	Manganese Dioxide	1313-13-9	>87%	-	-	0.5 ppm -	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

Respiratory Protection If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hand Protection Wear gloves.

Skin Protection Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Pink/purple crystalline solid.

Odour Odourless. Not applicable pΗ **Boiling Point** Not available Melting Point >450 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 2.9500

Water Solubility 450 g/L Very soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous No data available.

reactions

10.4 Conditions to Avoid No specific conditions.

10.5 Incompatable Materials No specific materials to avoid.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin Contact with the solid or solution may be irritating to the skin.

LD50 Skin Not available

Ingestion Ingestion may cause nausea, vomiting, gastric pain and diarrhoea.

LD50 Oral 1470 mg/Kg Rat

Inhalation Inhalation may cause tissue damage and pneumonia.

LD50 Inhalation >4.45 mg/L Rat
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Toxic to aquatic species and may cause long term adverse effects in the aquatic environment. Do not allow to

enter drinking water supplies, waste water, or soil.

LC50 Algal 61 mg/L Algae (72 hours)
LC50 Crustacea 3 mg Mn/L (96 hours)
LC50 Fish 49.9 mg/L Fish (96 hours)

12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB Assessment not required.

assessment

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

Section 14. Transport Information

14.1 UN Number 3077

14.2 Proper Shipping Name Environmentally hazardous substance, solid,

N.O.S. (Manganese Sulphate Monohydrate)

14.3 Transport classes

UN classification 9
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 90
Tunnel Restriction Code E

Single packs and combination packages containing inner packs of up to 5L or 5Kg are excluded from regulation (ADR 2.2.9.1.10, IMDG code 2.10.3).

14.4 Packing Group III

14.5 Environment hazards Marine pollutant.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.

Section 15. Regulatory Information

$15.1\ Safety, health\ and\ environment\ regulations\ specific\ for\ subtance/mixture.$

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Serious eye damage/irritation, category 1; Spec target organ tox - repeat, category 2; Hazard to aquatic environment,

category 2

Signal word Danger

Hazard Pictograms







Hazard Statements H318, H373, H411

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to

aquatic life with long lasting effects.

Precautionary Statements P260, P273

Do not breathe dust. Avoid release to the environment.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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