SLS Select Education - Safety Data Sheet

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

Revision: 2.1

Revision date: Date printed: 16 April 2021 25 January 2022

CHE2490SE

Section 1. Identification

1.1	Product Identifier	CHE2490SE
	Product Name	MANGANESE (II) SULPHATE H2O pure 500g.
	CAS Number REACH Registration No	10034-96-5 01-2119456624-35-XXXX
	Molecular Formula	MnSO, .H ₂ O =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

SLS Select Education



Wilford Industrial Estate Ruddington Lane Wilford Nottingham NG11 7EP UNITED KINGDOM

(Have this document to hand)

	8 / 1	(24hr)	112
1.4	Emergency Telephone	(08:00-17:00)	0115 9821111
	Email	sales@scientific-	labs.com
	Fax	0115 9825275	
	Phone	0115 9821111	

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Serious eye damage/irritation, category 1H318: Causes serious eye damage.Spec target organ tox - repeat, category 2H373: May cause damage to organs through prolonged or repeated exposure.Hazard to aquatic environment, category 2H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard Statements

Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.

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 aiders	Wear protective gloves / eye protection.

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 MediaConsider what other flammable materials are present and act accordingly.Unsuitable MediaNothing 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

Avoid breathing dust.

6.2 Environmental precautions

Personal Protection

Enviromental

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.

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

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.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
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.
pH	Not applicable
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 reactions	No data available.
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

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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 degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal MethodsDo not dispose of as domestic waste.Contaminated PackagingWash 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
14.4	Packing Group	III
14.5	Environment hazards	Marine pollutant.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.
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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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