WF Education Group - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021

Date printed: 07 June 2021

Section 1. Identification

1.1 Product Identifier MA3756

Product Name MANGANESE DIOXIDE POWDER 500g.

CAS Number 1313-13-9

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula MnO₂ =86.94

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 WF Education Group



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Battlefield Enterprise Park

Stafford Drive Shrewsbury Shropshire SY1 3FE

UNITED KINGDOM

Phone +44(0)1743 812200
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1.4 Emergency Telephone (08:30-17:00) +44(0)1743 812200

(24hr) 112 (Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

Spec target organ tox - repeat, category 2 H373: May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms





Hazard Statements Harmful if inhaled. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

WF Education Group - Safety Data Sheet Ref: MA3756

Page 1 of 5

Precautionary Statements

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you

feel unwell. Rinse mouth.

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		<100%	Acute Tox. 4 (O), Acute Tox. 4 (I), STOT RE 2

Section 4. First Aid

4.1 Description of first aid measures

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

OBTAIN MEDICAL ATTENTION.

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

Inhalation Remove from exposure.

Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION. Ingestion

Personal protection for first 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

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

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Not combustible but assists burning. 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-wear respiratory protective equipment. Do not allow other people to enter area.

6.2 Environmental precautions

Enviromental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable Major Spillage

container for disposal. Carry out this operation under fume extraction.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and transfer to sealable

container for disposal. Carry out this operation under fume extraction.

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

Store in a suitable area for oxidising agents.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

ſ	Component	CAS No	Concentration	Workplace Exposure Limits		
				Long Term	(8hr TWA)	Short Term 15min period)
Γ	Manganese Dioxide	1313-13-9	<100%	-	-	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 Dark brown powder. Odour No specific odour. pН Not applicable **Boiling Point** Not available Melting Point 535 °C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable

Explosive Properties No.

Oxidising Properties A strong oxidising agent.

Vapour Pressure Not applicable Relative Density 5.2100

Water Solubility Insoluble 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.

No specific conditions. **10.4** Conditions to Avoid

10.5 Incompatable Materials Reacts with hydrochloric acid liberating toxic chlorine gas. A strong oxidiser, avoid heating or friction with

organic matter or other easily oxidisable substances eg. sulphur, sulphide, phosphide or hypophosphites.

Hazardous Decomposition

Products

May produce hazardous fumes if involved in a fire.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Presents no significant health hazard to the eyes. Skin Presents no significant hazard by skin contact.

LD50 Skin Not available

Ingestion will cause similar effects to dust inhalation. Ingestion

LD50 Oral >3480 mg/Kg Rat

Inhalation Prolonged exposure to dust or fume concentrations above the occupational exposure limits may lead to

pronounced dizziness, nausea, loss of appetite and co-ordination. Absorbed manganese accumulates in the blood until a threshold value is exceeded after which further absorbtion leads to deposition in body organs. Chronic poisoning is difficult to diagnose but symptoms are weight and appetite loss, headaches, dizziness, somnolence

indifference and apathy.

LD50 Inhalation Not available **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 No specific environmental hazard.

LC50 Algal Not available LC50 Crustacea Not available LC50 Fish Not available 12.2 Persistence and No data available.

degradability

12.3 Bioaccumulative potential No data available. **12.4** Mobility in soil No data available.

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 Methods Dispose of to a licensed land fill site. Contaminated Packaging Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number Non-restricted14.2 Proper Shipping Name Non-restricted

14.3 Transport classes

UN classification None Subsidiary hazard(s) None Transport category None

ADR Hazard ID Non-restricted Tunnel Restriction Code Non-restricted

14.4 Packing Group None

14.5 Environment hazards See section 12.

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 Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation); Spec target organ tox - repeat, category 2

Signal word Warning

Hazard Pictograms





Hazard Statements H332, H302, H373

Harmful if inhaled. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements P260, P271, P264, P270, P301+P312, P330

Do not breathe dust. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

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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