

## SECTION 1: Identification of the substance/mixture and of the company/undertaking.

### 1.1. Product identifier

Product form : Substance

Product name : Manganese Carbonate

EC no : 209-942-9

CAS No. : 598-62-9

REACH registration No. : 01-2119442695-32-XXXX

Synonyms : Manganese (II) Carbonate, Rhodocrosite

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

#### against 1.2.1. Relevant identified uses

Use of the substance/preparation:

Substance used as such, in formulation or in formulation of products such as:

- Ceramics
- Fertilisers
- Surface metal treatment
- Metal working fluids
- Water Treatment
- Washing and Cleaning Products

#### 1.2.2. Uses advised against

- None

Full text of use descriptors: see section 16.

### 1.3. Details of the supplier of the safety data sheet

Simba Materials Limited t/a CTM Potters Supplies

Unit 7-8

Broomhouse Lane Industrial Estate

Broomhouse Lane

Edlington

Doncaster

DN12 1EQ

T +44 (0)1709 770801 - F +44 (0)1709 770803

Unit 10 A

Millpark Industrial Estate

White Cross Road

Woodbury Salterton

nr Exeter

Devon

EX5 1EL

T +44 (0)1395 233077 - F +44 (0)1395 233905

### 1.4. Emergency telephone number

T +44 (0)1630 673611 (Office hours only)

[enquiries@industrialmineralservices.com](mailto:enquiries@industrialmineralservices.com)

**SECTION 2: Hazards identification.****2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Physical and chemical hazards: Not classified

Human health: Not classified

Environment: Not classified

Full text of H-phrases: see section 16

**Classification according to Directive 67/548/EEC or 1999/45/EC**

Not classified

Full text of R-phrases: see section 16

**Adverse physicochemical, human health and environmental effects**

No additional information available

**2.2. Label elements**

EC No. 209-942-9

**Labelling according to Regulation (EC) No. 1272/2008 (CLP)**

No pictogram required.

**2.3. Other hazards**

High concentrations of dust may form explosive mixture in air. Take precautionary measures against static discharges when there is a risk of dust explosion/

**SECTION 3: Composition/information on ingredients.**

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Manganese Carbonate	(CAS No.) 598-62-9 (EC no) 209-942-9	80 - 100	Not classified
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 (CLP)
Manganese Carbonate	(CAS No.) 598-62-9 (EC no) 209-942-9	8 - 1000	Not classified

Full text of R-, H- and EUH-phrases: see section 16

REACH Registration number: 01-2119442695-32

**SECTION 4: First aid measures.****4.1. Description of first aid measures**

**Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Ingestion:** Rinse mouth thoroughly. Get medical attention if any discomfort continues.

**Skin contact:** Wash skin with soap and water. Get medical attention if irritation persists after washing.

**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

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

**Inhalation:** No specific symptoms noted.

**Ingestion:** No specific symptoms noted.

**Skin contact:** No specific symptoms noted.

**Eye contact:** No specific symptoms noted.

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

Treat symptomatically.

**SECTION 5: Firefighting measures.****5.1. Extinguishing media**

**Suitable extinguishing media:** Water Spray, Alcohol-resistant foam, dry chemical or carbon dioxide

**Unsuitable extinguishing media:** None

**5.2. Special hazards arising from the substance or mixture**

**Fire hazard:** Not flammable.

**Explosion hazard:** No explosive properties known.

**Reactivity:** Stable under normal conditions of handling and storage.

**5.3. Advice for firefighters**

**Protection during firefighting:** No specific fire fighting procedures given. Wear self contained breathing apparatus if necessary.

**SECTION 6: Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures**

**General measures:** Keep public away from danger area. See section 8.2.

**6.1.1. For non-emergency personnel**

No additional information available

**6.1.2. For emergency responders**

No additional information available

**6.2. Environmental precautions**

Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

**6.4. Reference to other sections**

See section 8 and 13 for more information.

**SECTION 7: Handling and storage.****7.1. Precautions for safe handling**

**Precautions for safe handling:** Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.

**Packagings:** Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packagings as if they were full. Avoid all contact with this substance.

**Hygiene measures:** When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in section 1.2

## SECTION 8: Exposure controls/personal protection.

### 8.1. Control parameters

Long-term exposure limit (8-hour TWA): WEL 0.5 mg/m<sup>3</sup> as Mn

WEL = Workplace Exposure Limit

#### DNEL

Workers - Inhalation; Long term systemic effects: 0.2 mg/m<sup>3</sup>

Workers - Dermal; Long term systemic effects: 0.00414 mg/kg/day

General population - Inhalation; Long term systemic effects: 0.043 mg/m<sup>3</sup>

General population - Dermal; Long term systemic effects: 0.0021 mg/kg/day

#### PNEC

Fresh water; 0.0084 mg/l

Marine water; 0.00084 mg/l

Intermittent release; 0.011 mg/l

STP; 100 mg/l

Sediment (Freshwater); 8.18 mg/kg sediment dw

Sediment (Marinewater); 0.81 mg/kg sediment dw

Soil; 8.15 mg/kg soil dw

### 8.2. Exposure controls

**Appropriate engineering controls:** Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Please refer to the annex (exposure scenarios).

**Hand protection:** Use gloves resistant to chemical products corresponding to EN 374:3. Take advice to gloves' manufacturer.

**Eye protection:** Wear safety glasses with side shields according EN 166.

**Skin and body protection:** The EU SCOEL issued a proposed OEL for Manganese of 0.2 mg/Mn/m<sup>3</sup> inhalable and 0.05 mg Mn/m<sup>3</sup> respirable. For good industrial hygiene purposes, ensure containment of gaseous/dusty material. Use local exhaust ventilation (LEV) and respiratory protective equipment (RPE) for all processes especially those resulting in dust generation. Workers are encouraged to use personal protection equipment such as eye/face protection (safety glasses, goggles etc.); Skin protection (gloves, overalls) and respiratory protection on extremely dusty areas/ tasks.

**Respiratory protection:** Use respiratory protection mask according to EN 140 or EN 405 with filter type P3 according to EN 143:2000 or FFP3 according to EN 149:2001.

**Environmental exposure controls:** Avoid release to the environment.

**SECTION 9: Physical and chemical; properties.**

Physical state	Powder.
Colour	Light brown.
Odour	odourless.
Odour threshold	Not applicable
pH	No data available
Relative evaporation rate (butylacetate=1)	No data available
Melting point	>446°C
Freezing point	No data available
Initial Boiling point and range	Endpoint waived according to REACH Annex VII, IX or XI. Unjustified as the melting point >300°C.
Flash point	Not flammable
Self ignition temperature	Not applicable
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	Endpoint waived according to REACH Annex VII, IX or XI. Unjustified as the melting point >300°C.
Relative vapour density at 20 °C	No data available
Relative density	3.27 @ 22°C +/- 0.5°C
Density	No data available
Solubility	3.63mg/l at 20 <sup>0</sup> C @ °C Insoluble in water.
Log Kow	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive.
Oxidising properties	Non oxidizing material according to EC criteria.
Explosive limits	Not applicable

**9.2. Other information**

Mol. Weight	114.95
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## SECTION 10: Stability and reactivity.

### 10.1. Reactivity

Discolouring may occur when the product is exposed to air.

### 10.2. Chemical stability

Stable under normal conditions of handling and storage.

### 10.3. Possibility of hazardous reactions

Fine particles may form explosive vapour/air mixtures.

### 10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid exposure to high temperatures or direct sunlight. High concentrations of dust may form explosive mixture with air.

### 10.5. Incompatible materials

Avoid contact with strong acids, Organic peroxides/hydroperoxides, inorganic peroxides, organic sulphur compounds, and inorganic sulphides.

### 10.6. Hazardous decomposition products

Carbon dioxide.

## SECTION 11: Toxicological information.

### 11.1. Information on toxicological effects

#### **Acute toxicity - oral**

Notes (oral LD<sub>50</sub>) LD<sub>50</sub> > 2000 mg/kg, Oral, Rat ( OECD 420 ) Based on available data the classification criteria are not met.

#### **Acute toxicity – dermal**

Notes (dermal LD<sub>50</sub>) Scientifically unjustified

#### **Acute toxicity – inhalation**

Notes (inhalation LC<sub>50</sub>) LC<sub>50</sub> (4h) > 5.35 mg/l, Inhalation, Rat ( OECD 403. ) Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.

#### **Skin corrosion/irritation**

Animal data Primary dermal irritation index: 0 Not irritating. ( OECD 404. ) Based on available data the classification criteria are not met.

#### **Serious eye damage/irritation**

Serious eye damage/irritation Not irritating. ( OECD 405. ) Based on available data the classification criteria are not met.

**Skin sensitisation**

Skin sensitisation Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. ( OECD 429. ) Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.

**Germ cell mutagenicity**

**Genotoxicity - in vitro:** Bacterial reverse mutation test: Negative. ( OECD 471. ) Read-across approach: Manganese chloride. Based on available data the classification criteria are not met.

**Genotoxicity - in vivo:** Chromosome aberration: Negative. ( OECD 474. ) Read-across approach: Manganese chloride. Based on available data the classification criteria are not met.

**Carcinogenicity**

Carcinogenicity Based on available data the classification criteria are not met. Weight of evidence.

**Reproductive toxicity**

**Reproductive toxicity – fertility:** Scientifically unjustified.

**Reproductive toxicity –development:** Scientifically unjustified.

**Specific target organ toxicity - repeated exposure**

**STOT - repeated exposure:** Based on available data the classification criteria are not met. Weight of evidence

**Aspiration hazard**

**Aspiration hazard:** Not relevant.

**Inhalation:** Dust in high concentrations may irritate the respiratory system.

**Ingestion:** May cause discomfort if swallowed.

**Skin contact:** Powder may irritate skin.

**Eye contact:** Particles in the eyes may cause irritation and smarting.

**SECTION 12: Ecological information.**

**Ecotoxicity:** Not regarded as dangerous for the environment.

**12.1. Toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hour: > 100 % v/v, Onchorhynchus mykiss (Rainbow trout) OECD 203.

Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.

**Acute toxicity – aquatic invertebrates**

EC<sub>50</sub>, 48 hour: > 3.6 mg/l, Daphnia magna OECD 202.

Based on available data the classification criteria are not met.

**Acute toxicity - aquatic plants**

EC<sub>50</sub>, 72 hour: > 100 % v/v, Desmodemus subspicatus OECD 201.

Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.

**Acute toxicity –microorganisms**

NOEC, 3 hour: 1000 mg/l, Activated sludge OECD 209.

Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.

**Chronic toxicity – aquatic invertebrates**

NOEC, 8 day: 1.3 mg/l, Ceriodaphnia dubia\_OECD\_211.

Read-across approach: Manganese (II) oxide. Based on available data the classification criteria are not met.



### 12.2. Persistence and degradability

The product contains only inorganic substances which are not biodegradable.

### 12.3. Bioaccumulative potential

The product is not bioaccumulating.

### 12.4. Mobility in soil

Not relevant, due to the form of the product.

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT or vPvB criteria of REACH, annex XIII.

### 12.6. Other adverse effects

None known.

## SECTION 13: Disposal considerations.

### 13.1. Waste treatment methods

**Waste treatment methods:** Dispose of this material and residues in accordance with local authority requirements.

**Additional information:** Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

**Ecology - waste materials:** See the European waste catalogue.

## SECTION 14: Transport information.

### 14.1. UN number

The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).

### 14.2. UN proper shipping name

Not classified for transportation.

### 14.3. Transport hazard class(es)

Not classified for transportation.

### 14.4. Packing group

Not classified for transportation.

### 14.5. Environmental hazards

Other information: Not environmental hazards known with this product.

### 14.6. Special precautions for user

Not classified for transportation.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

**SECTION 15: Regulatory information.****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.****EU legislation:**

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

**Guidance:**

Workplace Exposure Limits EH40.

**15.2. Chemical Safety Assessment.**

Not classified. No chemical safety assessment has been carried out.

**SECTION 16: Other information.****Abbreviations and acronyms:**

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF: Assessment factor

BCF: Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service

CLP: Classification, labelling, packaging

CSR: Chemical Safety Report

DMEL: Derived maximum effect level

DNEL: Derivative No effect Level

EC: European Community  
ELV: Emission limit values  
EN: European Norm  
EUH: European Hazard Statement  
EWC: European Waste catalogue  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
IMDG: International Maritime Dangerous Goods  
LC50: Median lethal concentration  
LD50: Median lethal dose  
NOAEL: No-observed-adverse-effect-level  
NOEC: No observed effect concentration  
NOEL: No observed effect level  
OEL: Operator exposure level  
PBT: Persistent, bioaccumulative, Toxic  
PEC: Predicted effect level  
PNEC: Predicted No effect Concentration  
REACH: Registration, evaluation and autorisation of chemicals  
RID: Regulations concerning the international carriage of dangerous goods by rail  
STEL: Short Term Exposure Limit  
TWA: Time weighted average  
vPvB: Very persistent, very bioaccumulative.

**Training advice:** None.

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

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