

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

1.1. Product identifier

Product form : Substance
Trade name : Washed Manganese
EC-No. : 215-202-6
CAS-No. : 1313-13-9
Product code : 107390
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use
Industrial/Professional use spec : Industrial
Use of the substance/mixture : For use in water purification

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Prince Minerals Ltd
Duke St
ST4 3NR Stoke-on-Trent - UK
T +44 (0)1782 343000

1.4. Emergency telephone number

Emergency number : +44 1865 407333 - (24h) National Chemical Emergency Centre

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
manganese dioxide	(CAS-No.) 1313-13-9 (EC-No.) 215-202-6	78 - 80	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Washed Manganese (1313-13-9)		
EU	Local name	Manganese
EU	IOELV TWA (mg/m ³)	0.2 mg/m ³ (inhalable fraction) 0.05 mg/m ³ (respirable fraction)
EU	Notes	SCOEL Recommendations (2011)
Austria	Local name	Mangan und seine anorganischen
Austria	MAK (mg/m ³)	0.5 mg/m ³
Austria	MAK Short time value (mg/m ³)	2 mg/m ³
Belgium	Local name	Manganèse et ses composés (en Mn) # Mangaan, en - verbindingen (als Mn)
Belgium	Limit value (mg/m ³)	0.2 mg/m ³
Bulgaria	Local name	Манган
Bulgaria	OEL TWA (mg/m ³)	0.3 mg/m ³ оксид и неорганични съединения (като манган)
Bulgaria	OEL STEL (mg/m ³)	3 mg/m ³ оксид и неорганични съединения (като манган)
Croatia	Local name	Mangan i njegovi anorganski spojevi (kao Mn)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0.5 mg/m ³
Czech Republic	Local name	Mangan
Czech Republic	Expoziční limity (PEL) (mg/m ³)	1 mg/m ³

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Czech Republic	Expoziční limity (NPK-P) (mg/m ³)	2 mg/m ³
Denmark	Local name	Mangan, pulver, støv og uorganiske forbindelser
Denmark	Grænseværdie (langvarig) (mg/m ³)	0.2 mg/m ³ beregnet som Mn 0.1 mg/m ³ respirabel
Estonia	Local name	Mangaan ja anorgaanilised ühendid (arvutatudmangaanile) kogutolm
Estonia	OEL TWA (mg/m ³)	0.2 mg/m ³
Finland	Local name	Mangaani, metalli
Finland	HTP-arvo (8h) (mg/m ³)	0.02 mg/m ³
Finland	Huomautus (FI)	Mn, alveolijae
Germany	TRGS 900 Local name	Mangan und seine anorganischen Verbindungen
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	0.02 mg/m ³ A (mg/m ³) 0.2 mg/m ³ E (mg/m ³)
Germany	TRGS 900 Remark	DFG,Y,10,20
Hungary	Local name	MANGÁN ÉS SZERVETLEN SÓI (mangán-tetraoxid kivételével, Mn-ra számítva)
Hungary	AK-érték	5 mg/m ³
Hungary	CK-érték	20 mg/m ³
Ireland	Local name	Manganese, fume (as Mn)
Ireland	OEL (8 hours ref) (mg/m ³)	0.2 mg/m ³ I (Inhalable) 0.02 mg/m ³ R (Respirable) 0.2 mg/m ³
Ireland	OEL (15 min ref) (mg/m ³)	3 mg/m ³
Latvia	Local name	Mangānsmetināšanas aerosolos(kondensācijas aerosols)
Latvia	OEL TWA (mg/m ³)	0.1 mg/m ³
Poland	Local name	Mangan i jego związki nieorganiczne w przeliczeniu na Mn
Poland	NDS (mg/m ³)	0.3 mg/m ³
Portugal	Local name	Manganês e compostos inorgânicos, expressos em Mn
Portugal	OEL TWA (mg/m ³)	0.02 mg/m ³ R (Fração respirável) 0.1 mg/m ³ I (Fração inalável)
Romania	Local name	Mangan
Romania	OEL TWA (mg/m ³)	0.5 mg/m ³
Romania	OEL STEL (mg/m ³)	3 mg/m ³
Slovakia	Local name	Mangán a jeho anorganické zlúčeniny
Slovakia	NPHV (priemerná) (mg/m ³)	0.5 mg/m ³
Slovenia	Local name	mangan in njegove anorganske spojine vključno strimanganovim tetraoksidom
Slovenia	OEL TWA (mg/m ³)	0.5 mg/m ³
Slovenia	OEL STEL (mg/m ³)	2 mg/m ³
Spain	Local name	Manganeso
Spain	VLA-ED (mg/m ³)	0.2 mg/m ³ elemental. Fracción inhalable 0.2 mg/m ³ Compuestos inorgánicos de Manganeso, como Mn. Fracción inhalable 0.05 mg/m ³ elemental. Fracción respirable 0.05 mg/m ³ Compuestos inorgánicos de manganeso, como Mn. Fracción respirable
Sweden	Local name	Mangan, och oorg. föreningar (som Mn)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0.2 mg/m ³ totaldamm 0.1 mg/m ³ respirabelt damm

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Sweden	Anmärkning (SE)	2 (Med totaldamm menas de partiklar (aerosoler) som fastnar på ett filter i den provtagare som beskrivs i Metodserien, Provtagning av totaldamm och respirabelt damm, Metod nr 1010, Arbetskyddsstyrelsen, numera Arbetsmiljöverket. Filterdiametern är normalt 37 mm, men kan även vara 25 mm. Trots sitt namn provtas inte den totala mängden luftburna partiklar med denna metod)
United Kingdom	Local name	Manganese
United Kingdom	WEL TWA (mg/m ³)	0.5 mg/m ³ and its inorganic compounds (as Mn)
Russian Federation	Local name	Марганец в сварочных аэрозолях
Russian Federation	OEL TWA (mg/m ³)	0.2 mg/m ³ (при его содержании: до 20%) 0.1 mg/m ³ (при его содержании: от 20 до 30%)
Russian Federation	Remark (RU)	2 класс опасности - высокоопасное; а (аэрозоль)
Switzerland	Local name	Mangan und seine anorg. Verbindungen (als Mn berechnet)
Switzerland	MAK (mg/m ³)	0.5 mg/m ³ 0.5 mg/m ³ 0.5 mg/m ³
Switzerland	Remark (CH)	e(mg/m ³) - B P SS _c - ZNS ^{KT HU} - NIOSH
Australia	Local name	Manganese, fume (as Mn)
Australia	TWA (mg/m ³)	1 mg/m ³ Synonym (Manganese tetroxide)
Australia	STEL (mg/m ³)	3 mg/m ³ Synonym (Manganese tetroxide)
USA - ACGIH	Local name	Manganese
USA - ACGIH	ACGIH TWA (mg/m ³)	0.02 mg/m ³
USA - ACGIH	Remark (ACGIH)	CNS impair; A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: No data available
Odour	: No data available
Odour threshold	: No data available
pH	: No data available

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Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: Not applicable
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

12.2. Persistence and degradability

No additional information available

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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

No supplementary information available

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Washed Manganese is not on the REACH Candidate List

Washed Manganese is not on the REACH Annex XIV List

Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Germany

VwVwS Annex reference

: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 7145)

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12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

No additional information available

SDS EU (REACH Annex II)

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