



Safety Data Sheet

According to Regulation (EC) 1907/2006



2367 Manganese(IV) Oxide *precipitated

Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation

Name:

Manganese(IV) Oxide *precipitated

Synonym:

Manganese Dioxide, Pyrolusite

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

PANREAC QUIMICA S.L.U.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Acute Tox. 4

Hazard Pictograms



Signal word

Warning

Hazard statements

H332 Harmful if inhaled.

H302 Harmful if swallowed.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

Classification (67/548/CEE or 1999/45/CE).

Xn Harmful R20/22

For the full text of the R-phrases mentioned in this section, see section 16.

Component Composition/Information

Name: Manganese(IV) Oxide *precipitated

Formula: MnO₂ M.= 86,94 CAS [1313-13-9]

EC number (EINECS): 215-202-6

EC index number: 025-001-00-3

First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Inhaling:

Take the person out into the fresh air.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Incombustible. Encourages fire to break out. Keep away from combustible substances.

5.4 Protective equipment:

Suitable clothing and footwear.

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the dust.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

6.3 Methods for collection/cleaning:

Collect up dry and deposit in waste containers for subsequent elimination in accordance with current legislation. Clean any remains with plenty of water.

Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. Dry atmosphere.

Staff exposure/protection controls

8.1 Technical protective measures:

No special indications.

8.2 Exposure limit control:

VLA-ED(Mn): 0,2 mg/m³ dermal resorption

8.3 Respiratory protection:

If dust forms, use suitable respiratory protection.

8.4 Hand protection:

Use suitable gloves

8.5 Eye protection:

Use suitable goggles.

8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: solid

Colour: black

Granulometry: N/A

Odour: Odourless.

pH: 4 - 5 (0,2)

Melting point/freezing point: 535 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: in Insoluble in water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

Stability and reactivity

10.1 Conditions which should be avoided:

The product is chemically stable under standar ambient conditions (room temperature).

10.2 Matter which should be avoided:

Acids.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

No specific data.

Toxicological information

- **Acute toxicity:**

TC L0 inh mus : 49 mg/m³ 7h

- **Dangerous effects for health:**

If dust inhaled: breathing difficulties pneumonia. Absorption If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause nausea vomiting stomach pains gastro-intestinal disorders Absorption Systemic effects: Can cause effects on the central nervous system Take the usual precautions for handling chemical products.

Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

12.1.2. - Receptor medium:

Risk for the water environment

Risk for the land environment

12.1.3. - Observations:

Ecotoxic data not available.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Considerations regarding elimination

13.1 Substance or preparation:

In the European Union, there are no homogeneous standards established for elimination of chemical waste, which is waste of a special nature, and treatment and elimination of same is subject to the domestic legislation in each country.

In view of this, in each case, you should contact the competent authority or those companies legally authorized for elimination of waste.

2001/573/EC: Council Decision of 23 July 2001 amending Commission Decision 2000/532/EC as regards the list of wastes. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste.

13.2 Contaminated containers:

Contaminated containers and packaging of dangerous substances or preparations must be treated in the same manner as the actual products contained in them.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

Information concerning transport

Overland (ADR):

Technical name: OXIDIZING SOLID, N.O.S.

UN 1479 Class: 5.1 CONTAM. MAR Packaging group: II (E)

By sea (IMDG):

Technical name: OXIDIZING SOLID, N.O.S.

UN 1479 Class: 5.1 CONTAM. MAR Packaging group: II

By air (ICAI-IATA):

Technical name: Oxidizing solid, n.o.s.

UN 1479 Class: 5.1 CONTAM. MAR Packaging group: II

Packaging instructions: CAO 562 PAX 558

Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other information

Other precautionary statements

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P330 Rinse mouth.

Labelling (65/548/CEE or 1999/45/CE)

R-phrase(s):	R20/22 Harmful by inhalation and if swallowed.
S-phrase(s):	S25 Avoid contact with eyes.

Review number and date: 4 15.09.2011

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In respect of the previous review, changes have been made to the following sections: 15

The information included in this Safety Data Sheet is based on our most up-to-date knowledge, and is solely intended to inform regarding aspects of safety; the properties and characteristics indicated herein are not guaranteed.