



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006

211408 Manganese(IV) Oxide QP

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

1.1 Identification of the substance or preparation

Name:

Manganese(IV) Oxide

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

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

2. Identification of dangers

Harmful by inhalation and if swallowed.

3. Component Composition/Information

Name: Manganese(IV) Oxide

Formula: MnO_2 M.=86,94 CAS [1313-13-9]

EC number (EINECS): 215-202-6

EC index number: 025-001-00-3

4. 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. In the event of irritation, seek medical assistance.

4.5 Swallowing:

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

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

As appropriate to the environment.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

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

5.4 Protective equipment:

6. 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.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers.

8. Staff exposure/protection controls

8.1 Technical protective measures:

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. Use suitable work clothing. Wash hands before breaks and when the job is done. Do not inhale the substance.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

Fine black powder.

Odour:

Odourless.

Melting point: X535°C

Density (20/4): 5,03

Solubility: Insoluble in water

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Reducing agents.

10.3 Hazardous decomposition products:

10.4 Complementary information:

Vigorous oxidizing agent.

11. Toxicological information

11.1 Acute toxicity:

TCLo inh mouse: 49 mg/m³/7h.

11.2 Dangerous effects for health:

If dust inhaled: breathing difficulties, pneumonia.

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause nausea, vomiting, stomach pains, gastro-intestinal disorders.

Systemic effects: Can cause: effects on the central nervous system.

Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

Ecotoxic data not available.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD₅/COD Biodegradability = ----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

13. 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.

14. Information concerning transport

Overland (ADR):

Technical name: SÓLIDO COMBURENTE, N.E.P.

ONU 1479 Class: 5.1 Packaging group: II (E)

By sea (IMDG):

Technical name: SÓLIDO COMBURENTE, N.E.P.

ONU 1479 Class: 5.1 Packaging group: II

By air (ICAI-IATA):


Technical name: Sólido comburente, n.e.p.

ONU 1479 Class: 5.1 Packaging group: II

Packaging instructions: CAO 511 PAX 508

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Harmful

Phrases R: 20/22 Harmful by inhalation and if swallowed.

Phrases S: 25 Avoid contact with eyes.

EC index number: 025-001-00-3

16. Other information

Review number and date:1 07.06.09

In respect of the previous review, changes have been made to the following sections: 8.

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.