

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

141400 **Magnesium** metal, powder PRS

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

1.1 Identification of the substance or preparation

Name:

Magnesium metal, powder

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.

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2. Identification of dangers

Highly flammable. Contact with water liberates extremely flammable gases.

3. Component Composition/Information

Name: Magnesium metal, powder

Formula: Mg M.=24,31 CAS [7439-95-4]

EC number (EINECS): 231-104-6

EC index number: 012-002-00-9

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, keeping eyelids open. In the event of irritation, seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Seek medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Dry powder, special for metals. Smother with dry earth or sand.

5.2 Fire-fighting means which must NOT be used:

Water. Foam.

5.3 Special risks:

Combustible. Keep away from sources of ignition. Risk of explosion of dust. In the event of fire, toxic fumes may form.

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:

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. Dry atmosphere. Away from sources of ignition and heat.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

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 and face before breaks and when the job is done. Use complete protective equipment.

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:

Silvery-grey solid.

Odour:

Odourless.

Boiling point: 1107°C

Melting point: 651°C

Self-ignition temperature: >500°

Density (20/4): 1,738

Solubility: in water at 20°C: breaks down.

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Water. (There is a risk of explosion). (Hydrogen is formed).

Acids. Air. Alcohols. Semimetallic oxides. Sulphates. Alkaline salts. Alkaline solutions.

Halogens. Halogen halides. Non-metal halides. Alkaline hydroxides. Halogenated hydrocarbons. Oxidant agents. O₂. Nitrates. Non-metals. Metal oxides. Non-metal oxides.

10.3 Hazardous decomposition products:

Hydrogen.

10.4 Complementary information:

11. Toxicological information

11.1 Acute toxicity:

11.2 Dangerous effects for health:

The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are:

If dust inhaled: Irritations to the respiratory tracts.

Upon contact with the skin: irritations. Penetration of the product causes injuries which are hard to cure.

Through contact with the eyes: irritations.

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract.

Can cause gastro-intestinal disorders, loss of appetite, weight loss.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Fish(Mg) = 100 mg/l ; Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment = Medium

Risk for the land environment = Low

12.2.3 - Observations:

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. Hardly pollutant product. Reacts with water. Risk of formation of explosive fumes on the surface of the water.

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: MAGNESIO EN POLVO

ONU 1418 Class: 4.3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: MAGNESIO EN POLVO

ONU 1418 Class: 4.3 Packaging group: II

By air (ICAI-IATA):


Technical name: Magnesio en polvo

ONU 1418 Class: 4.3 Packaging group: II

Packaging instructions: CAO 417 PAX 415

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Highly flammable

Phrases R: 11-15 Highly flammable. Contact with water liberates extremely flammable gases.

Phrases S: 7/8-43f Keep container tightly closed and dry. In case of fire, use sand. Never use water.

EC index number: 012-002-00-9

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: 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.