



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

141190 **Barium Nitrate PRS**

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

1.1 Identification of the substance or preparation

Name:

Barium Nitrate

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: Barium Nitrate

Formula: $\text{Ba}(\text{NO}_3)_2$ M.=261,35 CAS [10022-31-8]

EC number (EINECS): 233-020-5

EC index number: 056-002-00-7

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. In the event sickness persists, seek medical assistance.

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. Induce vomiting. Seek immediate medical assistance. Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). In the event of suffocation, proceed to provide artificial respiration.

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. In the event of fire, toxic fumes may form: NO_x. Cool the recipients with water. Precipitate fumes formed with water.

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. Dry atmosphere. Keep away from flammable substances, sources of ignition and heat. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

TLV-TWA (Ba): 0,5 mg/m³

VLA-ED (Ba): 0,5 mg/m³

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.

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:

White solid.

Odour:

Odourless.

pH X5 (50 g/l)

Melting point: X595°C

Density (20/4): 3,24

Solubility: 90 g/l in water at 20°C

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Powdered aluminium. Sulphur. Magnesium. Metals (powder). Flammable substances.

10.3 Hazardous decomposition products:

10.4 Complementary information:

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 355 mg/kg

LDLo oral rabbit: 150 mg/kg

Rabbit skin sensitization test: 500 mg/24h: light.

11.2 Dangerous effects for health:

If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. Can cause nausea, vomiting, dizziness, saliva flow, intestinal disorders, diarrhoea, headaches, stomach pains.

Systemic effects: arrhythmia, cardiovascular disorders, alterations of the circulation, collapse, muscular disorders.

12. Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC₅₀ test (mg/l):

Algae (*Sc. quadricauda*) = 34 mg/l ; Classification: Extr. toxic

Crustaceans (*Daphnia magna*) = 29 mg/l ; Classification: Extr. toxic

Fish (*Salmo gairdneri*) Ba = 158 mg/l ; Classification: Highly toxic

Fish (*Leuciscus Idus*) Ba = 870 mg/l ; Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment = High

Risk for the land environment = Medium

12.2.3 - Observations:

The ecotoxicity is due to the ion Ba.

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:

Dangerous for drinking water. 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: NITRATO BÁRICO

ONU 1446 Class: 5.1 Packaging group: II (E)

By sea (IMDG):

Technical name: NITRATO BÁRICO

ONU 1446 Class: 5.1 Packaging group: II

By air (ICAI-IATA):


Technical name: Nitrato bórico

ONU 1446 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: 28a After contact with skin, wash immediately with plenty of water.

EC index number: 056-002-00-7

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.