



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

141197 **Bismuth(III) Hydroxide Nitrate** (USP, DAB) PRS-CODEX

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

**1.1 Identification of the substance or preparation**

Name:

Bismuth(III) Hydroxide 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.

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Emergencies:

Single telephone number for emergency calls: 112 (EU)

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

**2. Identification of dangers**

No hazardous substance as specified in Regulation (CE) 1907/2006.

### 3. Component Composition/Information

Name: Bismuth(III) Hydroxide Nitrate

Formula:  $\text{Bi}_5\text{O}(\text{OH})_9(\text{NO}_3)_4$  M.=1461,99 CAS [1304-85-4]

EC number (EINECS): 233-792-3

### 4. First aid

#### 4.1 General indications:

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#### 4.2 Inhaling:

Go 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.

#### 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:

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#### 5.3 Special risks:

Incombustible.

#### 5.4 Protective equipment:

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### 6. Measures to be taken in the event of accidental spillage

#### 6.1 Individual precautions:

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#### 6.2 Precautions for care of the environment:

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#### 6.3 Methods for collection/cleaning:

Collect up dry. 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. In a cool place.

## 8. Staff exposure/protection controls

### 8.1 Technical protective measures:

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### 8.2 Exposure limit control:

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### 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:

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

### 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 X3,2(50 g/l

Melting point: 260°C (de

Density (20/4): 4,93

Solubility: Very slightly soluble in water.

## **10. Stability and reactivity**

### **10.1 Conditions which should be avoided:**

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### **10.2 Matter which should be avoided:**

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### **10.3 Hazardous decomposition products:**

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### **10.4 Complementary information:**

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## **11. Toxicological information**

### **11.1 Acute toxicity:**

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### **11.2 Dangerous effects for health:**

Through contact with the eyes: irritations.

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

If swallowed in large quantities: nausea, vomiting, loss of appetite, cyanosis, headaches, breathing difficulties, kidney problems, coma, cardiovascular failure, respiratory paralysis.

Other dangerous characteristics are not discarded.

## 12. Environmental information

### 12.1 Mobility:

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### 12.2 Ecotoxicity:

12.1.1 - EC<sub>50</sub> test (mg/l):

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12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

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### 12.3 Degradability:

12.3.1 - Test: BOD<sub>5</sub> = ----

12.3.2 - Biotic degradation classification:

BOD<sub>5</sub>/COD Biodegradability = ----

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

12.3.4 - Observations:

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### 12.4 Accumulation:

12.4.1 - Test:

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12.4.2 - Bioaccumulation:

Risk = ----

12.4.3 - Observations:

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### 12.5 Other possible effects on the environment:

Product insoluble in water. If suitable handling conditions are maintained, no ecological problems are to be anticipated.

### **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: NITRATOS INORGÁNICOS, N.E.P.

ONU 1477 Class: 5.1 Packaging group: II (E)

By sea (IMDG):

Technical name: NITRATOS INORGÁNICOS, N.E.P.

ONU 1477 Class: 5.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Nitratos inorgánicos, n.e.p.

ONU 1477 Class: 5.1 Packaging group: II

Packaging instructions: CAO 511 PAX 508

### **15. Mandatory information**

Labelling as per REACH

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### **16. Other information**

Review number and date:0 07.06.09

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.