



## Safety Data Sheet

According to Regulation (EC) 1907/2006



1487 Potassium Bromate

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

## 1.1 Identification of the substance or preparation

Name:

Potassium Bromate

## 1.2 Synonym:

## 1.3 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

## 1.4 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)

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# Identification of dangers

Classification of the substance or the mixture.

**Classification Regulation (CE) n° 1272/2008.**

Carc. 1B

Ox. Sol. 1

Acute Tox. 3

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H271 May cause fire or explosion; strong oxidiser.

H301 Toxic if swallowed.

## Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P220 Keep/Store away from clothing/.../combustible materials.

P221 Take any precaution to avoid mixing with combustibles...

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

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

O Oxidizing RE25

T Toxic R9

R45

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

# Component Composition/Information

Name: Potassium Bromate

Formula:  $\text{KBrO}_3$  M.= 167,01 CAS [7758-01-2]

EC number (EINECS): 231-829-8

EC index number: 035-003-00-6

## 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. Seek medical assistance.

### 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:

### 5.3 Special risks:

Encourages fire to break out. Keep away from combustible substances. In the event of fire, fumes may form:

### 5.4 Protective equipment:

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

### 6.1 Individual precautions:

Avoid contact with the skin, eyes or clothing.

### 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. Keep away from flammable substances, sources of ignition and heat. Atmospheric temperature. Restricted access, only authorized to technicians.

# 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. 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.

# Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour: Odourless.

pH: 5 - 9 (50g/l)

Melting point/freezing point: 434 °C

Initial boiling point and boiling range:

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure:

Vapour density:
Relative density: 3,27
Solubility: 70 g/l water 20 °C
Partition coefficient: n-octanol/water:
Auto-ignition temperature:
Decomposition temperature: above 430 °C
Viscosity:

## Stability and reactivity

### 10.1 Conditions which should be avoided:

### 10.2 Matter which should be avoided:

Metalloids. Non-metals. Non-metal halides. Reducing agents. Flammable substances.  
Ammoniacal compounds Metals (powder).

### 10.3 Hazardous decomposition products:

### 10.4 Complementary information:

## Toxicological information

- **Acute toxicity:**

LD50 oral rat : 321 mg/kg

LD50 ipr mus : 177 mg/kg

- **Dangerous effects for health:**

If swallowed: nausea vomiting intestinal disorders stomach pains Systemic effects:  
metahemoglobinemia with headaches arrhythmia hypotension breathing difficulties spasms  
cyanosis After a period of latency: hepatic problems kidney problems Other dangerous  
characteristics are not discarded. Take the usual precautions for handling chemical products.

## Environmental information

### 12.1 Mobility:

**12.2 Ecotoxicity:**

12.2.1 - EC50 test (mg/l):

Classification:

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.

## 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: POTASSIUM BROMATE

UN 1484 Class: 5.1 Packaging group: II (E)

By sea (IMDG):

Technical name: POTASSIUM BROMATE

UN 1484 Class: 5.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Potassium bromate

UN 1484 Class: 5.1 Packaging group: II

Packaging instructions: CAO 511 PAX 508

## **Regulatory information**

## **Other information**

**Other precautionary statements**

P264 Wash...thoroughly after handling.

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P283 Wear fire/flame resistant/retardant clothing.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P306+P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P330 Rinse mouth.

P370+P378 In case of fire: Use for extinction.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P405 Store locked up.

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

R-phrases(s):	<b>RE25</b> Also toxic if swallowed. <b>R9</b> Explosive when mixed with combustible material. <b>R45</b> May cause cancer.
S-phrases(s):	<b>S45</b> In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). <b>S53</b> Avoid exposure - obtain special instructions before use.

Review number and date: 3 3.11.10

Date published: 3.11.10

In respect of the previous review, changes have been made to the following sections: 2, 3, 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.