



## Safety Data Sheet

According to Regulation (EC) 1907/2006



A600 1-Bromobutane

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

## 1.1 Identification of the substance or preparation

Name:

1-Bromobutane

## 1.2 Synonym:

n-Butyl Bromide

## 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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# Identification of dangers

Classification of the substance or the mixture.

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

Flam. Liq. 2

Eye Irrit. 2

STOT SE 3

**Hazard Pictograms**



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

**Precautionary statements**

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

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P242 Use only non-sparking tools.

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

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

**Xi** Irritant  
R36/38  
R10

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

# Component Composition/Information

Name: 1-Bromobutane

Formula: C<sub>4</sub>H<sub>9</sub>Br M.= 137,03 CAS [109-65-9]

EC number (EINECS): 203-691-9

# 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.

**4.5 Swallowing:**

Drink large amounts of water. Induce vomiting. In the event of sickness, seek medical assistance.

## Fire-fighting means

**5.1 Suitable fire-extinguishing means:**

Water. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**5.2 Fire-fighting means which must NOT be used:****5.3 Special risks:**

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

**5.4 Protective equipment:**

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

**6.1 Individual precautions:****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 with absorbent materials (Panreac General Absorbent, Kieselguhr, etc.) or, if none available, dry sand or earth, 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:**

Avoid the formation of electrostatic charges. Handle under an extractor fan.

## 7.2 Storage:

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. In a cool place. Away from light.

# Staff exposure/protection controls

## 8.1 Technical protective measures:

## 8.2 Exposure limit control:

## 8.3 Respiratory protection:

In the event of fumes forming/aerosols, 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 and face 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.

# Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry:

Odour: Characteristic.

pH:

Melting point/freezing point: -112 °C

Initial boiling point and boiling range: 102 °C

Flash point: 13 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: 6,6 %(V) / 2,6 %(V)

Vapour pressure: 1.033 hPa (102 °C)

Vapour density:

Relative density: (20/4) 1,273

Solubility: 0,6 g/l water 20 °C

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 265 °C

Decomposition temperature:

Viscosity:

## Stability and reactivity

**10.1 Conditions which should be avoided:**

**10.2 Matter which should be avoided:**

Alkaline metals. Alkali-earth metals. Peroxides.

**10.3 Hazardous decomposition products:**

**10.4 Complementary information:**

## Toxicological information

- **Acute toxicity:**

LD50 ipr mus : 1.424 mg/kg

LD50 ipr rat : 4.450 mg/kg

- **Dangerous effects for health:**

If inhaled: Irritations to the mucosae coughing breathing difficulties Upon contact with the skin: irritations Through contact with the eyes: irritations 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):

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:

Data not available.

**12.4 Accumulation:**

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Data not available.

**12.5 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

Water-pollutant product.

## 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: 1-BROMOBUTANE

UN 1126 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: 1-BROMOBUTANE

UN 1126 Class: 3 Packaging group: II

By air (ICAI-IATA):

Technical name: 1-Bromobutane

UN 1126 Class: 3 Packaging group: II

Packaging instructions: CAO 307 PAX 305

## Regulatory information

## Other information

### Other precautionary statements

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

R-phrases(s):	<b>R36/38</b> Irritating to eyes and skin. <b>R10</b> Flammable.
S-phrases(s):	<b>S36</b> Wear suitable protective clothing. <b>S26</b> In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.

In respect of the previous review, changes have been made to the following sections: 2, 3, 15

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