



4747 2-Bromo-2-Nitro-1,3-Propanediol

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

1.1 Identification of the substance or preparation

Name:

2-Bromo-2-Nitro-1,3-Propanediol

Synonym:

Bronopol

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) N° 1907/2006, the annual tonnage does not require a registration, the registration is envisaged for a later registration deadline or it is a mixture.

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

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

2. Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Acute Tox. 4

Acute Tox. 4

STOT SE 3

Skin Irrit. 2

Eye Dam. 1

Aquatic Acute 1

Hazard Pictograms



Signal word

Danger

Hazard statements

H312 Harmful in contact with skin.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

N	Dangerous for the environment	R50
Xn	Harmful	R41
		R37/38
		R21/22

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

3. Component Composition/Information

Name: 2-Bromo-2-Nitro-1,3-Propanediol
Formula: $C_3H_6BrNO_4$ M.= 199,99 CAS [52-51-7]
EC number (EINECS): 200-143-0
EC index number: 603-085-00-8

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 (for at least 15 minutes), keeping eyelids open. Seek medical assistance.

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Seek medical assistance.

5. Fire-fighting means**5.1 Suitable fire-extinguishing means:**

Water. Foam. Carbon dioxide (CO₂). Dry powder.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Combustible. In the event of fire, toxic fumes may form:

5.4 Protective equipment:

Suitable clothing and footwear.

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. In a cool place.

8. Staff exposure/protection controls**8.1 Technical protective measures:**

No special indications.

8.2 Exposure limit control:

: Data not available.

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

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

Appearance: solid

Colour: White

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: 128 - 132 °C

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density:

N/A

Solubility: in Soluble in water.

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity**10.1 Conditions which should be avoided:**

The product is chemically stable under standard ambient conditions (room temperature).

10.2 Matter which should be avoided:

No specific data.

10.3 Hazardous decomposition products:

No specific data.

10.4 Complementary information:

No specific data.

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 307 mg/kg

LD50 skn rat : 1.600 mg/kg

LD50 ipr mus : 15,5 mg/kg

11.2 Dangerous effects for health:

No specific data on this product known with regard to effects of overdose in humans. Take the usual precautions for handling chemical products.

12. Environmental information**12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) >10 mg/l

Classification:

Extr. toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment

Medium

12.1.3. - Observations:

Ecotoxic in water environment.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Data not available.

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Data not available.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

Water-pollutant product.

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.

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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.

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14. Information concerning transport

Overland (ADR):

Technical name: SELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLID2-BROMO-2-NITROPROPANE-1,3-DIOL

UN 3241 Class: 4.1 PELIG.M.AMB Packaging group: III (D)

By sea (IMDG):

Technical name: SELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLIDSELF-REACTIVE LIQUIDSELF-REACTIVE SOLID2-BROMO-2-NITROPROPANE-1,3-DIOL

UN 3241 Class: 4.1 PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: 2-Bromo-2-Nitropropane-1,3-diol

UN 3241 Class: 4.1 PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 453 PAX 457

15. Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. Other information

Other precautionary statements

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see on this label).
P322 Specific measures (see on this label).
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

R-phrases(s):	R50 Very toxic to aquatic organisms. R41 Risk of serious damage to eyes. R37/38 Irritating to respiratory system and skin. R21/22 Harmful in contact with skin and if swallowed.
S-phrases(s):	S61 Avoid release to the environment. Refer to special instructions/safety data sheets. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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.