



Safety Data Sheet

According to Regulation (EC) 1907/2006



5521 Di-n-Butyl Ether

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

1.1 Identification of the substance or preparation

Name:

Di-n-Butyl Ether

1.2 Synonym:

1,1#-Oxybisbutane, 1-Butoxybutane, Butyl Ether, Dibutyl Ether

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

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: product.safety@panreac.com

Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.: (+34) 937 489 499

Identification of dangers

Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 3

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Aquatic Chronic 3

Hazard Pictograms



Signal word

Warning

Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

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).

R52/53

Xi Irritant R36/37/38

R10

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

Component Composition/Information

Name: Di-n-Butyl Ether

Formula: C₈H₁₈O M.= 130,23 CAS [142-96-1]

EC number (EINECS): 205-575-3

EC index number: 603-054-00-9

First aid

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness.

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 (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:

Cool the container with water. Carbon dioxide (CO₂). Foam. Dry powder. Atomized water.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. May form explosive mixtures with the air. Do not dispose of chemically polluted water into the soil, into water supplies or down drains. Take the necessary precautions to keep back the water used for subsequent elimination in accordance with D

5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Do not inhale the fumes.

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 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.

7.2 Storage:

Well sealed containers. Away from light. In well ventilated premises. Away from sources of ignition and heat. Atmospheric temperature.

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. Filter A. Filter P.

8.4 Hand protection:

Use suitable gloves neopren nitrile

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.

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: -95 °C
Initial boiling point and boiling range: 140 - 143 °C
Flash point: 25 °C
Flammability (solid, gas):
Upper/lower flammability or explosive limits: 8,5 %(V) / 0,9 %(V)
Vapour pressure: 6,4 hPa (20 °C)
Vapour density:
Relative density: (20/4) 0,77
Solubility: Insoluble in water Miscible with alcohol and ether
Partition coefficient: n-octanol/water:
Auto-ignition temperature: 185 °C
Decomposition temperature:
Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Oxidant agents.

10.3 Hazardous decomposition products:

Peroxides.

10.4 Complementary information:

Toxicological information

- **Acute toxicity:**

LD50 oral rat : 7.400 mg/kg

LD50 skn rbt : 10 mg/kg

- **Dangerous effects for health:**

If fumes inhaled: Irritations to the mucosae and respiratory tracts. Upon contact with the skin: irritations Through contact with the eyes: irritations If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. If it is absorbed in large quantities: headaches narcosis kidney problems hepatic problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

Environmental information

12.1 Mobility:

12.2 Ecotoxicity:

12.1.1 - EC50 test (mg/l):

12.2.2 - Receptor medium:

Risk for the water environment

Risk for the land environment

12.2.3 - Observations:

12.3 Degradability:

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

ThOD

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: DIBUTYL ETHERS

UN 1149 Class: 3 Packaging group: III (D/E)

By sea (IMDG):

Technical name: DIBUTYL ETHERS

UN 1149 Class: 3 Packaging group: III

By air (ICAI-IATA):

Technical name: Dibutyl ethers

UN 1149 Class: 3 Packaging group: III

Packaging instructions: CAO 310 PAX 309

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.

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

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

P362 Take off contaminated clothing and wash before reuse.

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-phrase(s):	R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R36/37/38 Irritating to eyes, respiratory system and skin. R10 Flammable.
S-phrase(s):	S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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.