



## 1314 Di-Isopropyl Ether \*stabilized with BHT

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

#### 1.1 Identification of the substance or preparation

Name:

Di-Isopropyl Ether \*stabilized with BHT

#### Synonym:

2,2#-Oxibispropane, 2-iso-Propoxipropane, Diisopropyl Ether, Isopropyl Ether, iso-Propyl Ether

**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](mailto: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.**

Flam. Liq. 2

STOT SE 3

#### Hazard Pictograms



**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

**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).**

F Highly flammable

R67

R66

R19

R11

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

**3. Component Composition/Information**

Name: Di-Isopropyl Ether \*stabilized with BHT

Formula:  $(\text{CH}_3)_2\text{CHOCH}(\text{CH}_3)_2$  M.= 102,18 CAS [108-20-3]

EC number (EINECS): 203-560-6

EC index number: 603-045-00-X

**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. In the event of suffocation, proceed to provide artificial respiration. Loosen clothing to release respiratory channels.

**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:**

Seek medical assistance. Stomach lavage. (Only if unavoidable, and with extreme care). Risk of aspiration.

### **5. Fire-fighting means**

#### **5.1 Suitable fire-extinguishing means:**

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

#### **5.2 Fire-fighting means which must NOT be used:**

No specific data.

#### **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.

#### **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 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.

### **7. 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. Room temperature. Do not store in plastic containers.

### **8. Staff exposure/protection controls**

#### **8.1 Technical protective measures:**

No special indications.

#### **8.2 Exposure limit control:**

VLA-EC: 310 ppm - 1.310 mg/m<sup>3</sup>

VLA-ED: 250 ppm - 1.060 mg/m<sup>3</sup>

#### **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 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: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: -85,9 °C

Initial boiling point and boiling range: 68 °C

Flash point: - 12 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 21 %(V) / 1 %(V)

Vapour pressure: 180 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,7241

Solubility: 12 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 405 °C

Decomposition temperature: N/A

Viscosity: N/A

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

High temperatures.

**10.2 Matter which should be avoided:**

Aldehydes. Amines. Mineral acids. Oxidant agents. (There is a risk of explosion).  
Zinc.

**10.3 Hazardous decomposition products:**

Peroxides.

**10.4 Complementary information:**

Light-sensitive. Exposure to air encourages decomposition. The gases/fumes can form explosive mixtures with the air.

**11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 8.470 mg/kg

LD50 skn rbt : 20.000 mg/kg

LC50 inh rat : 162000 mg/m<sup>3</sup>

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

If fumes inhaled: Irritations to the mucosae and respiratory tracts. Upon contact with the skin: irritations slight Through contact with the eyes: irritations slight If swallowed: nausea vomiting If it is absorbed in large quantities: dizziness headaches narcosis anxiety spasms

## **12. Environmental information**

### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Cold-blooded animals 100 - 1000 mg/l

Classification:

Highly toxic

Bacteria 100 mg/l

Classification:

Highly toxic

Fish (C. auratus) 380 mg/l

Classification:

Highly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Medium

12.1.3. - Observations:

Acute ecotoxicity in line with the dumping concentration.

### **12.2 Persistence and Degradability :**

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

ThOD 2833 mg/l

BOD5/COD

Biodegradability

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Biodegradable product.

### **12.3 Bioaccumulative potential:**

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

### **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:**

Product hardly pollutant for water.

Do not allow it to enter soils or water channels.

## **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: DIISOPROPYL ETHER

UN 1159 Class: 3 Packaging group: II (D/E)

By sea (IMDG):

Technical name: DIISOPROPYL ETHER

UN 1159 Class: 3 Packaging group: II

By air (ICAI-IATA):

Technical name: Diisopropyl ether

UN 1159 Class: 3 Packaging group: II

Packaging instructions: CAO 364 PAX 353

## **15. Regulatory information**

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

## **16. Other information**

### **Other precautionary statements**

P243 Take precautionary measures against static discharge.

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

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.

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

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): **R67** Vapours may cause drowsiness and dizziness.  
**R66** Repeated exposure may cause skin dryness or cracking.  
**R19** May form explosive peroxides.  
**R11** Highly flammable.

S-phrase(s): **S33** Take precautionary measures against static discharges.  
**S29** Do not empty into drains.  
**S16** Keep away from sources of ignition - No smoking.  
**S9** Keep container in a well-ventilated place.

Review number and date: 4 15.09.2011

Date published: 15.09.2011

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