

# Safety Data Sheet

## According to Regulation (EC) 1907/2006



### 1937 Di-n-Butyl Phthalate

#### 1. Identification of the substance/mixture and of the company/undertaking

##### 1.1 Product identifier

Name:

Di-n-Butyl Phthalate

##### Synonym:

DBP, n-Butyl Phthalate, Phthalic Acid Dibutyl Esther

**REACH Registration Number:** 01-2119493042-44-XXXX

##### 1.2 Relevant identified uses of the substance or mixture:

The substance is permitted for using in medicinal products according to Regulation (EC) n° 726/2004, Directive 2001/82/EC and Directive 2001/83/EC.

Usos no recomendados:

The substance is restricted to any use not Authorized according to Annex XIV of REACH Regulation.

##### 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.**

Repr. 1B

Aquatic Acute 1

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H360Df May damage the unborn child. Suspected of damaging fertility.

H400 Very toxic to aquatic life.

## Precautionary statements

P201 Obtain special instructions before use.

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

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

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

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

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

<b>N</b>	Dangerous for the environment	R50
<b>T</b>	Toxic	R61
		R62

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

## 3. Composition/information on ingredients

Name: Di-n-Butyl Phthalate

Formula: (C<sub>4</sub>H<sub>9</sub>OOOC)<sub>2</sub>C<sub>6</sub>H<sub>4</sub> M.= 278,35 CAS [84-74-2]

EC number (EINECS): 201-557-4

EC index number: 607-318-00-4

REACH Registration Number: 01-2119493042-44-XXXX

## 4. First aid measures

### 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 sickness persists, seek medical assistance.

### 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.

#### **4.5 Swallowing:**

Wash mouth out immediately. Drink large amounts of water. Seek medical assistance. Administer a solution of medical-usage active charcoal.

### **5. Firefighting measures**

#### **5.1 Suitable extinguishing media:**

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

#### **5.2 Unsuitable extinguishing media:**

Running water.

#### **5.3 Special hazards arising from the substance or mixture:**

Combustible. Keep away from sources of ignition. May form explosive mixtures with the air.

#### **5.4 Advice for firefighters:**

Suitable clothing and footwear. Self-contained breathing equipment.

### **6. Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures:**

Do not inhale the fumes. Use personal protective equipment as required.

#### **6.2 Environmental precautions:**

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

#### **6.3 Methods and material for containment and cleaning up:**

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 Precautions for safe handling:**

Ensure good ventilation and renewal of the air in the premises. Avoid sources of ignition. Do not smoke.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

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

### **8. Exposure controls/personal protection**

#### **8.1 Exposure controls:**

No special indications., Ensure good ventilation and renewal of the air in the premises.

## 8.2 Control parameters:

VLA-ED: 5 mg/m<sup>3</sup> ,

### Derived No Effect Level (DNEL)

: ,

Workers Inhalation, acute (systemic): 8,52 mg/m<sup>3</sup> ,

Workers Dermal, long exposure (systemic): , 7,22mg/kg/24h

Workers Inhalation, long term (systemic): 4,17 mg/m<sup>3</sup> ,

Population, Dermal, long exposure (systemic): , 2,2mg/kg bw/24h

Population Inhalation, long term (systemic): 0,62 mg/m<sup>3</sup> ,

Population, oral, long term (systemic): , 0,22mg/kg bw/24h

### Predicted No Effect Concentration (PNEC)

: ,

Sediment: Freshwater, 1,39mg/kg

Sediment: Marine water, 0,39mg/kg

Freshwater: , 10µg/l

Marine water: , 1µg/l

Water: (intermittent unloading), 3,5µg/l

STP: , 0,22mg/l

Soil: , 2mg/kg

## 8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection.

## 8.4 Hand protection:

Use suitable gloves (butyl rubber, nitrile)

## 8.5 Eye/face protection:

Use safety glasses.

## 8.6 Individual hygiene measures:

Remove contaminated 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: -35 °C

Initial boiling point and boiling range: 340 °C

Flash point: 171 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 1,048

Solubility: 0,4 g/l in water ( 20 °C )  
Partition coefficient: n-octanol/water:  
N/A  
Auto-ignition temperature: 370 °C  
Decomposition temperature: N/A  
Kinematic viscosity:N/A  
Dynamic viscosity:  
N/A

## **10. Stability and reactivity**

### **10.1 Conditions to avoid:**

High temperatures. Adjacent sources of heat. Protected from air.

### **10.2 Incompatible materials:**

Strong oxidant agents. Strong acids. Strong bases.

### **10.3 Hazardous decomposition products:**

In the event of fire, toxic fumes may form.

### **10.4 Chemical stability:**

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

## **11. Toxicological information**

### **11.1 Acute toxicity:**

LD50 oral rat : 6.279 mg/kg

LC50 inh rat : 15,68 mg/m3

NOAEL rat : 152 mg/kg (subchronic)

NOAEC rat : 500 mg/m3 (subchronic)

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

**Respiratory or skin sensitisation:** No evidence. **Skin corrosion/irritation:** Not irritant. **Serious eye damage/irritation:** Not irritant. **Carcinogenicity:** Not classified. **Germ cell mutagenicity:** No evidence. **Reproductive toxicity:** Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnancy. Possible risk of impaired fertility. **STOT- single exposure:** Not classified. **STOT-repeated exposure:** Not classified. **Aspiration hazard:** No evidence.

## **12. Environmental information**

### **12.1 Toxicity:**

#### **Acute toxicity for fish:**

LC50 0,35 mg/l

#### **Chronic toxicity for fish:**

NOEC 100 ug/l

#### **Acute toxicity for aquatic invertebrates:**

EC50 o LC50 0,76 mg/l

#### **Chronic toxicity for aquatic invertebrates:**

NOEC 100 ug/l

#### **Acute toxicity for Algae:**

EC50 o LC50 8,38 mg/l

#### **Chronic toxicity for Algae:**

NOEC 5 mg/l

## **12.2 Persistence and Degradability :**

Easily biodegradable product.

## **12.3 Bioaccumulative potential:**

Non-bioaccumulable product.

BCF < 2000: 108-115 (IUCLID)

## **12.4 Mobility in soil :**

Adsorption not significant.

## **12.5 Assessment PBT and MPMB :**

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria for PBT (persistent / bioaccumulative / toxic). According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Does not meet the criteria vPvB (very persistent / very bioaccumulative).

## **12.6 Other adverse effects:**

Do not allow it to enter soils or water channels.

# **13. Disposal considerations**

## **13.1 Waste treatment methods:**

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. Transport information**

Overland (ADR):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

Technical name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

UN 3082 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

Technical name: Environmentally hazardous substance, liquid, n.o.s.

UN 3082 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 964 PAX 964

# **15. Regulatory information**

The substance is included in Annex XIV (LIST OF SUBSTANCES SUBJECT TO AUTHORISATION) according to Regulation (EC) No. 1907/2006 (REACH).

## 16. Other information

### Other precautionary statements

P391 Collect spillage.

P405 Store locked up.

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

R-phrases(s):	<b>R50</b> Very toxic to aquatic organisms. <b>R61</b> May cause harm to the unborn child. <b>R62</b> Possible risk of impaired fertility.
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. <b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 6 02.08.2013

Replaced: 12.3.2012

In respect of the previous review, changes have been made to the following sections: 1, 4, 5, 6, 7, 8, 10, 11, 12

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.