



## 1244 Carbon Disulphide

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

#### 1.1 Identification of the substance or preparation

Name:

Carbon Disulphide

#### Synonym:

Carbon Sulphide

**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

Eye Irrit. 2

Skin Irrit. 2

STOT RE 1

Repr. 2

## Hazard Pictograms



## Signal word

Danger

## Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H372 Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

## 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.

P243 Take precautionary measures against static discharge.

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

<b>T</b> Toxic	R62
<b>F</b> Highly flammable	R48/23
	R36/38
	R11
	R63

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

## 3. Component Composition/Information

Name: Carbon Disulphide

Formula: CS<sub>2</sub> M.= 76,14 CAS [75-15-0]

EC number (EINECS): 200-843-6

EC index number: 006-003-00-3

## 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 immediately to provide artificial respiration. Seek immediate 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:**

Avoid vomiting. Seek immediate medical assistance. Administer Vaseline oil as a laxative (3 ml/kg).

### **5. 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:**

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. In the event of fire, toxic fumes may form. Risk of inflammation due to accumulation of electrostatic charges.

#### **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:**

No special indications.

#### **7.2 Storage:**

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

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

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

No special indications.

## **8.2 Exposure limit control:**

VLA-ED: 10 ppm - 31 mg/m<sup>3</sup> dermal resorption

## **8.3 Respiratory protection:**

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter B. Filter P3.

## **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 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: Unpleasant, characteristic.

pH:

N/A

Melting point/freezing point: -111 °C

Initial boiling point and boiling range: 46 °C

Flash point: - 30 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 60 %(V) / 1 %(V)

Vapour pressure: 400 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,262

Solubility: 2,9 g/l in water 20 °C

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 102 °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:**

Aluminium. Powdered zinc. Alkaline metals. Azides. Halogen halides. Halogens. Hydrazine and derivatives. Carbon. Nitrogen oxides.

## **10.3 Hazardous decomposition products:**

No specific data.

#### **10.4 Complementary information:**

The gases/fumes can form explosive mixtures with the air.

### **11. Toxicological information**

#### **11.1 Acute toxicity:**

LD50 oral rat : 3.188 mg/kg

LC L0 inh hm : 4000 ppm 30 min

LC50 inh rat : 25 g/m<sup>3</sup> 2h

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

If fumes inhaled: Causes intoxication anxiety spasms narcosis Can cause respiratory paralysis death Irritations to the skin and mucosae. Risk of cutaneous absorption. Prolonged exposure causes tiredness muscular disorders gastro-intestinal disorders psychosis blood alterations arrhythmia If swallowed: vomiting headaches cyanosis respiratory paralysis hypotension loss of consciousness spasms Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnancy.

### **12. Environmental information**

#### **12.1 Toxicity:**

12.1.1 - EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 341 mg/l

Classification:

Highly toxic

Fish 95 mg/l

Classification:

Extr. toxic

Fish EC10 260 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:

Major ecotoxic effect in water environments.

#### **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:

#### **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:**

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.

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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: CARBON DISULPHIDE

UN 1131 Class: 3 6.1 Packaging group: I (C/E)

By sea (IMDG):

Technical name: CARBON DISULPHIDE

UN 1131 Class: 3 6.1 Packaging group: I

By air (ICAI-IATA):

Technical name: Carbon disulphide

UN 1131 Class: 3 6.1 Packaging group: -

Packaging instructions: CAO P PAX P

## **15. Regulatory information**

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

## **16. Other information**

### Other precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 Wash...thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
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.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/attention 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+P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

R-phrase(s):     **R62** Possible risk of impaired fertility.  
                      **R48/23** Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
                      **R36/38** Irritating to eyes and skin.  
                      **R11** Highly flammable.  
                      **R63** Possible risk of harm to the unborn child.

S-phrase(s):     **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
                      **S36/37** Wear suitable protective clothing and gloves.  
                      **S33** Take precautionary measures against static discharges.  
                      **S16** Keep away from sources of ignition - No smoking.

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.