



## Safety Data Sheet

According to Regulation (EC) 1907/2006



A598 1,4-Dichlorobenzene

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

## 1.1 Identification of the substance or preparation

Name:

1,4-Dichlorobenzene

## 1.2 Synonym:

p-Dichlorobenzene

## 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

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(Barcelona) Spain

Tel. (+34) 937 489 400

e-mail: [product.safety@panreac.com](mailto: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.**

Eye Irrit. 2

Carc. 2

Aquatic Acute 1

Aquatic Chronic 1

**Hazard Pictograms**



**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P201 Obtain special instructions before use.

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

P264 Wash...thoroughly after handling.

P273 Avoid release to the environment.

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

P281 Use personal protective equipment as required.

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

**N** Dangerous for the environment R50/53

**Xn** Harmful R40

R36

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

# Component Composition/Information

Name: 1,4-Dichlorobenzene

Formula: C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub> M.= 147,00 CAS [106-46-7]

EC number (EINECS): 203-400-5

EC index number: 602-035-00-2

## 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:

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

## 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:

### 5.3 Special risks:

Combustible. Keep away from sources of ignition. In the event of fire, toxic fumes may form:

### 5.4 Protective equipment:

## Measures to be taken in the event of accidental spillage

### 6.1 Individual precautions:

### 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.

# Handling and storage

## 7.1 Handling:

Handle under an extractor fan.

## 7.2 Storage:

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

# Staff exposure/protection controls

## 8.1 Technical protective measures:

## 8.2 Exposure limit control:

VLA-EC: 50 ppm ó 306 mg/m<sup>3</sup>

VLA-ED: 20 ppm ó 122 mg/m<sup>3</sup>

## 8.3 Respiratory protection:

Use suitable breathing equipment. Filter P. Filter A.

## 8.4 Hand protection:

Use suitable gloves

## 8.5 Eye protection:

Use suitable goggles.

## 8.6 Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use suitable work clothing. Do not inhale the substance.

## 8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

# Physical and chemical properties

Appearance: solid

Colour: White

Granulometry:

Odour:

pH:

Melting point/freezing point: 53 - 54 °C

Initial boiling point and boiling range: 174,12 °C

Flash point:

Flammability (solid, gas):

Upper/lower flammability or explosive limits:

Vapour pressure: 0,8 hPa (20 °C)

Vapour density:

Relative density: 1,241

Solubility: Insoluble in water

Partition coefficient: n-octanol/water:

Auto-ignition temperature: >500 °C

Decomposition temperature:

Viscosity:

## Stability and reactivity

### 10.1 Conditions which should be avoided:

High temperatures.

### 10.2 Matter which should be avoided:

Alkaline metals. Alkali-earth metals. Strong oxidant agents.

### 10.3 Hazardous decomposition products:

### 10.4 Complementary information:

Moisture sensitive.

## Toxicological information

- **Acute toxicity:**

LD L0 oral man : 857 mg/kg

LD50 oral rat : 500 mg/kg

LD50 ipr mus : 2.000 mg/kg

- **Dangerous effects for health:**

Upon contact with the skin: irritations Through contact with the eyes: irritations Prolonged exposure can cause hepatic problems alterations of the circulation 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):

Bacteria (Photobacterium phosphoreum) 4,87 mg/l

Classification:

Extr. toxic

Bacteria (E. coli) EC0 500 mg/l

Classification: Very toxic

Crustaceans (Daphnia magna) EC0 1,5 mg/l

Classification: Very toxic

Crustaceans (Daphnia magna) 3,2 mg/l

Classification:

Extr. toxic

Fish (Leuciscus Idus) EC0 50 mg/l

Classification:

Extr. toxic

Fish (P. promelas) 3,66 mg/l

Classification:

Extr. toxic

Fish (Salmo gairdneri)

Classification: Extr. toxic

Fish (L. Macrochirus) 4,3 mg/l

Classification:

Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

12.2.3 - Observations:

Extremely toxic in water supplies and soils. Ecotoxicity acute and chronic.

## **12.3 Degradability:**

12.3.1 - Test:

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Data not available.

Low biodegradability product.

**12.4 Accumulation:**

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

Data not available.

Bioaccumulable product.

**12.5 Other possible effects on the environment:**

Do not allow it to enter soils or water channels.

Water-pollutant product.

## 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: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III (E)

By sea (IMDG):

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

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

By air (ICAI-IATA):

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

UN 3077 Class: 9 CONTAM. MAR PELIG.M.AMB Packaging group: III

Packaging instructions: CAO 911 PAX 911

## Regulatory information

## Other information

### Other precautionary statements

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

P391 Collect spillage.

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-phrase(s):	<b>R50/53</b> Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. <b>R40</b> Limited evidence of a carcinogenic effect. <b>R36</b> Irritating to eyes.
S-phrase(s):	<b>S61</b> Avoid release to the environment. Refer to special instructions/safety data sheets. <b>S60</b> This material and its container must be disposed of as hazardous waste. <b>S46</b> If swallowed, seek medical advice immediately and show this container or label. <b>S36/37</b> Wear suitable protective clothing and gloves.

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.