



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006

15B291 2-Chlorobenzaldehyde, 99% PS

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

1.1 Identification of the substance or preparation

Name:

2-Chlorobenzaldehyde

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

Emergencies:

Single telephone number for emergency calls: 112 (EU)

Tel.:(+34) Tel.:(+34) 937 489 499

2. Identification of dangers

Causes burns.

3. Component Composition/Information

Name: 2-Chlorobenzaldehyde

Formula: C_7H_5ClO M.=140,57 CAS [89-98-5]

EC number (EINECS): 201-956-3

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. Take the product out with cotton wool soaked in polyethylene-glycol 400. Seek immediate medical assistance.

4.4 Eyes:

Wash with plenty of water (for at least 15 minutes), keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance. Do not neutralize.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Carbon dioxide (CO_2). Foam. Dry powder. Water.

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: HCl. Do not allow extinguishing water into surface or underground water courses.

5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

Avoid contact with the skin, eyes or clothing. Do not inhale the fumes. Ensure adequate ventilation.

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:

Ensure good ventilation and renewal of the air in the premises. Handle under an extractor fan. Packaged under nitrogen atmosphere. Avoid the formation of electrostatic charges.

7.2 Storage:

Well sealed containers. In a cool, dry place, away from light and well ventilated. Atmospheric temperature.

8. Staff exposure/protection controls

8.1 Technical protective measures:

Ensure good ventilation and renewal of the air in the premises.

8.2 Exposure limit control:

8.3 Respiratory protection:

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

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 and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace. Do not inhale the substance.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

Transparent, colourless liquid.

Odour:

Piquant.

pH X2,9 (sat.)

Boiling point: 209-215°C

Melting point: 10°C

Flash point: 87°C

Self-ignition temperature: 385°C

Vapour pressure: 1,7 hPa(50°C)

Density (20/4): 1,250

Solubility: Slightly soluble in water. Soluble in alcohol.

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Strong oxidant agents. Reducing agents. Air (formation of peroxides).

10.3 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide. Hydrogen chloride.

10.4 Complementary information:

Corrosive. Moisture sensitive. Light-sensitive. Heat sensitive. Exposure to light and air encourages the formation of peroxides.

11. Toxicological information

11.1 Acute toxicity:

LC₅₀ inh rat: 1203 mg/m³/4h

LD₅₀ oral mouse: 1900 mg/kg

LD₅₀ intraperitoneal mouse: 10 mg/kg

11.2 Dangerous effects for health:

If inhaled: Irritations to the mucosae, breathing difficulties, coughing. Burns in the mucosae. Can cause spasms, laryngitis, breathing difficulties, nausea, vomiting, inflammation and oedema of the larynx, bronchi and lungs.

Upon contact with the skin: Causes burns.

Through contact with the eyes: Causes burns.

If swallowed: Burns in the digestive apparatus.

Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Mobility:

Repartition: $\log P(\text{oct}) = 2,3$

12.2 Ecotoxicity:

12.1.1 - EC_{50} test (mg/l):

Crustaceans (*Daphnia magna*) EC_{50} : 30 mg/l

Fish (*Leuciscus Idus*) CL_0 : 20 mg/l/48h

12.2.2 - Receptor medium:

Risk for the water environment = ----

Risk for the land environment = ----

12.2.3 - Observations:

Ecotoxic data not available.

12.3 Degradability:

12.3.1 - Test:-----

12.3.2 - Biotic degradation classification:

BOD_5/COD Biodegradability = ----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Data not available.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = ----

12.4.3 - Observations:

Product with a low bioaccumulative potential.

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels. Do not allow it to enter the sewage system.

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: LÍQUIDO ORGÁNICO CORROSIVO, ÁCIDO, N.E.P.

ONU 3265 Class: 8 Packaging group: II (E)

By sea (IMDG):

Technical name: LÍQUIDO ORGÁNICO CORROSIVO, ÁCIDO, N.E.P.

ONU 3265 Class: 8 Packaging group: II

By air (ICAI-IATA):


Technical name: Líquido corrosivo, ácido, orgánico, n.e.p.

ONU 3265 Class: 8 Packaging group: II

Packaging instructions: CAO 812 PAX 808

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Corrosive

Phrases R: 34 Causes burns.

Phrases S: 26-45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

Review number and date:0 07.06.09

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.