



Safety Data Sheet According to Regulation (EU) 830/2015

1953 Chlorobenzene

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

1.1 Product identifier

Name:

Chlorobenzene

Synonym:

Benzene Chloride, mono-Chlorobenzene

REACH Registration Number: 01-2119432722-45-XXXX

1.2 Relevant identified uses of the substance or mixture:

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

1.4 Emergency telephone:

Single telephone number for emergency calls: 112 (EU)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Flam. Liq. 3

Acute Tox. 4

Aquatic Chronic 2

Skin Irrit. 2

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H315 Causes skin irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Chlorobenzene

Formula: C₆H₅Cl M.= 112,56 CAS [108-90-7]

EC number (EINECS): 203-628-5

EC index number: 602-033-00-1

REACH Registration Number: 01-2119432722-45-XXXX

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing:

Administer Vaseline oil as a laxative (3 ml/kg). Do not induce vomiting. Risk of aspiration. In case of loss of consciousness, position the person lying on his/her side. Seek immediate medical assistance.

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.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing.

Eyes:

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

5. Firefighting measures

5.1 Extinguishing media:

Water. Carbon dioxide (CO₂). Alcohol resistant foam. Dry powder.

5.2 Special hazards arising from the substance or mixture:

Combustible. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten In the event of fire, toxic fumes may form: HCl, COCl₂.

5.3 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes.

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.

6.4 Reference to other sections

Not applicable

7. Handling and storage

7.1 Precautions for safe handling:

No special indications.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In well ventilated premises. Keep away from flammable substances, sources of ignition and heat.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

VLA-EC: 15 ppm = 70 mg/m³ VLA-ED: 5 ppm = 47 mg/m³

8.2 Exposure controls

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

Respiratory protection:

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

Hand protection:

Use suitable gloves (nitrile).

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done. Use complete protective equipment.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH: 7

Melting point/freezing point: -45 °C

Initial boiling point and boiling range: 132 °C

Flash point: 28 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 11 %(V) / 1,3 %(V)

Vapour pressure: 12 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,107 g/ml

Solubility: in () Insoluble in water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 590 °C

Decomposition temperature: N/A
Kinematic viscosity: N/A
Dynamic viscosity: 0,8 mPa.s (20 °C)

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

No specific data.

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

High temperatures.

10.5 Incompatible materials:

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

10.6 Hazardous decomposition products:

Hydrogen chloride. Phosgene.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rat : 2.290 mg/kg

LC L0 inh rat : 9000 ppm

Dangerous effects for health:

If inhaled: Harmful to the health. No damage is anticipated to the foetus, provided the VLA values are respected (maximum admissible concentration in the workplace). If it is absorbed in large quantities: effects on the central nervous system narcosis Can have a demoisturizing effect on the skin, with the risk of secondary infection. Causes kidney problems hepatic problems Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 11,5 mg/l

Classification:

Extr. toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

- Observations:

Major ecotoxic effect in water environments.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Low biodegradability product.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

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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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

14.1 UN number

UN1134

14.2 UN proper shipping name

CHLOROBENZENE

14.3 Transport hazard class(es)

3

14.4 Packing group

ADR/IMDG: III

IATA: III

14.5 Environmental hazards

PELIG.M.AMB

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protection or 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.
P391 Collect spillage.
P403+P235 Store in a well-ventilated place. Keep cool.
P264 Wash...thoroughly after handling.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.

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In respect of the previous review, changes have been made to the following sections: 2,8

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.