



1286 1,2-Dichloroethane

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

1.1 Identification of the substance or preparation

Name:

1,2-Dichloroethane

Synonym:

EDC, Ethylene Chloride, Ethylene Dichloride

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

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.

Carc. 1B

Flam. Liq. 2

Acute Tox. 4

Eye Irrit. 2

STOT SE 3

Skin Irrit. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

Precautionary statements

P201 Obtain special instructions before use.

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

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.

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

T Toxic	R36/37/38
F Highly flammable	RE22
	R11
	R45

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

3. Component Composition/Information

Name: 1,2-Dichloroethane

Formula: ClCH₂ClCH₂ M.= 98,97 CAS [107-06-2]

EC number (EINECS): 203-458-1

EC index number: 602-012-00-7

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 to provide artificial respiration. Loosen clothing to release respiratory channels.

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). Do not administer castor oil. Do not drink milk. Do not drink ethyl alcohol. Seek medical assistance. Stomach lavage.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). 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. Risk of inflammation due to accumulation of electrostatic charges. In the event of fire, toxic fumes may form: Cl₂, HCl, COCl₂.

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 light. Room temperature. Away from sources of ignition and heat. Restricted access, only authorized to technicians. Do not store in plastic containers.

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:

VLA-ED: 20 mg/m³

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. Wash hands and face before breaks and when the job is done. Use complete protective equipment.

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: 83 °C

Flash point: 13 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 16 %(V) / 6,2 %(V)

Vapour pressure: 87 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,2569

Solubility: 8,5 g/l in water (20 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 440 °C

Decomposition temperature: N/A

Kinematic viscosity:N/A

Dynamic viscosity:0,8 mPa.s(20 °C)

10. Stability and reactivity**10.1 Conditions which should be avoided:**

High temperatures.

10.2 Matter which should be avoided:

Nitric acid. Powdered aluminium. Alkaline amides. Alkaline metals. Alkali-earth metals. Oxidant agents. Nitrogen oxides.

10.3 Hazardous decomposition products:

Chlorine. Hydrogen chloride. Phosgene.

10.4 Complementary information:

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

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 286 mg/kg
LD L0 oral hmn : 286 mg/kg
LD50 oral mus : 489 mg/kg
LD50 oral rat : 670 mg/kg
LD50 skn rbt : 2800 g/Kg
TC L0 inh man : 4000 ppm 1h
LC50 inh rat : 1000 ppm 7h

11.2 Dangerous effects for health:

Upon contact with the skin: Irritations to the skin and mucosae. Through contact with the eyes: irritations sight disorders If swallowed: nausea vomiting hepatic problems kidney problems Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. If it is absorbed in large quantities: effects on the central nervous system shock narcosis

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):

Hydrologycal organisms. 100 mg/l

Classification:

Highly toxic

Fish 150 mg/l

Classification:

Highly toxic

Bacteria (Ps. putida) EC0 135 mg/l

Classification: Highly toxic

Algae (M. aeruginosa) EC0 105 mg/l

Classification: Highly toxic

Crustaceans (Daphnia magna) 1350 mg/l

Classification:

Very toxic

12.1.2. - Receptor medium:

Risk for the water environment

High

Risk for the land environment Medium

12.1.3. - Observations:

Toxic product in any environment. Ecotoxicity acute and chronic.

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:

Data not available.

Low biodegradability product.

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk = ----

12.3.3. - Observations:

Data not available.

Bioaccumulable product.

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.

Maximum precaution handling it so as not to dump any.

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: ETHYLENE DICHLORIDE

UN 1184 Class: 3 6.1 Packaging group: II (D/E)

By sea (IMDG):

Technical name: ETHYLENE DICHLORIDE

UN 1184 Class: 3 6.1 Packaging group: II

By air (ICAI-IATA):

Technical name: Ethylene dichloride

UN 1184 Class: 3 6.1 Packaging group: II

Packaging instructions: CAO 364 PAX 352

15. Regulatory information

The substance is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)

16. Other information

Other precautionary statements

P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
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+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
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-phrases(s): **R36/37/38** Irritating to eyes, respiratory system and skin.
 RE22 Also harmful if swallowed.
 R11 Highly flammable.
 R45 May cause cancer.

S-phrases(s): **S45** In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 S53 Avoid exposure - obtain special instructions before use.

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.

