



Safety Data Sheet

According to Regulation (EC) 1907/2006



A628 2-Chloroethanol

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

1.1 Identification of the substance or preparation

Name:

2-Chloroethanol

1.2 Synonym:

2-Chloroethyl Alcohol, 2-Hydroxyethyl Chloride, Ethylene Chlorohydrin, Glycol Chlorohydrin

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

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.

Acute Tox. 2

Acute Tox. 1

Acute Tox. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H330 Fatal if inhaled.

H310 Fatal in contact with skin.

H300 Fatal if swallowed.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

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.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

T+ Very

R26/27/28

toxic

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

Component Composition/Information

Name: 2-Chloroethanol

Formula: $\text{ClCH}_2\text{CH}_2\text{OH}$ M.= 80,51 CAS [107-07-3]

EC number (EINECS): 203-459-7

EC index number: 603-028-00-7

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. Seek immediate medical assistance.

4.4 Eyes:

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

4.5 Swallowing:

Drink large amounts of water. Induce vomiting. Induce vomiting. Seek immediate medical assistance. Seek immediate medical assistance.

Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂).

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Combustible. Keep away from sources of ignition.

5.4 Protective equipment:

Suitable clothing and footwear. Self-contained breathing equipment.

Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

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

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.

Handling and storage

7.1 Handling:

Handle in a closed system. Avoid the formation of electrostatic charges.

7.2 Storage:

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

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-EC: 1 ppm ó 3,3 mg/m³

8.3 Respiratory protection:

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

8.4 Hand protection:

Use suitable gloves neopren

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 complete protective equipment.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

Physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry:

Odour: Characteristic.

pH: 6 - 7 (50%)

Melting point/freezing point: -63 °C

Initial boiling point and boiling range: 129 °C

Flash point: 60 °C

Flammability (solid, gas):

Upper/lower flammability or explosive limits: 16 %(V) / 5 %(V)

Vapour pressure: 6,6 hPa (20 °C)

Vapour density:

Relative density: (20/4) 1,2

Solubility: Miscible with alcohol and water

Partition coefficient: n-octanol/water:

Auto-ignition temperature: 425 °C

Decomposition temperature:

Viscosity:

Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

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

10.3 Hazardous decomposition products:

Hydrogen chloride.

10.4 Complementary information:

Toxicological information

- **Acute toxicity:**

LD50 oral rat : 76 mg/kg

LD50 skn rbt : 68 mg/kg

LC50 inh rat : 0,11 mg/l 4h

- **Dangerous effects for health:**

Toxic if swallowed, inhaled or absorbed through the skin. If inhaled: Harmful to the health. Risk of cutaneous absorption. Through contact with the eyes: irritations burns 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):

Algae 2,9 mg/l

Classification:

Extr. toxic

Bacteria

Classification: Toxic

Crustaceans (Daphnia magna) 350 mg/l/48h

Classification:

Extr. toxic

Fish (P. promelas)

Classification:

Extr. toxic

12.2.2 - Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

12.2.3 - Observations:

Major ecotoxic effect in water environments.

12.3 Degradability:

12.3.1 - Test:

BOD5 = 547 mg O₂/l

12.3.2 - Biotic degradation classification:

BOD5/COD

Biodegradability

12.3.3 - Abiotic degradation depending on pH:

12.3.4 - Observations:

Low biodegradability product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk

12.4.3 - Observations:

12.5 Other possible effects on the environment:

Do not allow it to enter soils or water channels.

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: ETHYLENE CHLOROXYDRIN

UN 1135 Class: 6.1 3 Packaging group: I (C/D)

By sea (IMDG):

Technical name: ETHYLENE CHLOROXYDRIN

UN 1135 Class: 6.1 3 Packaging group: I

By air (ICAO-IATA):

Technical name: Ethylene chlorohydrin

UN 1135 Class: 6.1 3 Packaging group: -

Packaging instructions: CAO P PAX P

Regulatory information

The substance is subject to Council Regulation (EC) No 1334/2000 of 22 June 2000 setting up a Community regime for the control of exports of dual-use items and technology.

Other information

Other precautionary statements

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

P284 Wear respiratory protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor/physician.

P320 Specific treatment is urgent (see on this label).

P321 Specific treatment (see on this label).

P322 Specific measures (see on this label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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

R-phrases(s):	R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.
S-phrases(s):	S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S28a After contact with skin, wash immediately with plenty of water. S7/9 Keep container tightly closed and in a well-ventilated place.

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.