



S a f e t y D a t a S h e e t
According to Regulation (EC) 1907/2006
and (EU) 453/2010

1749 Trichloroethylene, *stabilized with ethanol

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

1.1 Product identifier

Name:

Trichloroethylene, *stabilized with ethanol

Synonym:

1,1,2-Trichloroethylene, Ethylene Trichloride, Ethynyl Trichloride, Trichloroethene

CAS: [79-01-6]

REACH Registration Number: 01-2119490731-36-XXXX

1.2 Relevant identified uses of the substance or mixture:

| Exposure Scenarios | Main user groups principaux | Sectors of use (SU) | Chemical Product Category (PC) | Process Categories (PROC) | Substances in articles (AC) | Environmental Release Categories (ERC) |
|--------------------------------------|------------------------------------|----------------------------|---------------------------------------|---|------------------------------------|---|
| Manufacture | Industrial. | SU 3 | | PROC 1 PROC 2 PROC 3 PROC 4 PROC 8a PROC 8b PROC 15 | | ERC 1 |
| Distribution of Substance. | Industrial. | SU 3 | | PROC 1 PROC 2 PROC 3 PROC 4 PROC 8a PROC 8b PROC 9 PROC 15 | | ERC 2 |
| Mixing, preparation and repackaging. | Industrial. | SU 3 | | PROC 1 PROC 2 PROC 3 PROC 4 PROC 5 PROC 8a PROC 8b PROC 9 PROC 15 | | ERC 2 |
| Use in industrial surface cleaning. | (closed systems) | SU 3 | | PROC 1 PROC 3 PROC 8a PROC 8b | | ERC 7 |
| Use in industrial surface cleaning. | (enclosed systems) | SU 3 | | PROC 1 PROC 4 PROC 8a PROC 8b | | ERC 4 |
| Use as functional fluids. | Industrial. | SU 3 | | PROC 1 PROC 3 PROC 8a | | ERC 7 |
| Industrial use in dry-cleaning. | | SU 3 | | PROC 1 PROC 2 PROC 8a PROC 8b | | ERC 7 |
| Professional use as process chemical | (closed systems) | SU 22 | | PROC 1 PROC 3 PROC 8a PROC 8b | | ERC 9a |
| Solvent. | Industrial. | SU 3 | | PROC 1 PROC 2 PROC 3 PROC 8a PROC 8b PROC 15 | | ERC 7 |
| Industrial use as process chemical | (Semiclosed systems) | SU 3 | | PROC 3 PROC 4 PROC 5 PROC 8a PROC 10 PROC 14 PROC 15 | | ERC 4 |
| Professional use in adhesives. | | SU 22 | | PROC 1 PROC 3 PROC 8a PROC 8b | | ERC 8d |

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

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) nº 1272/2008.

Carc. 1B
Eye Irrit. 2
Skin Irrit. 2
Aquatic Chronic 3
STOT SE 3
Muta. 2

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

T Toxic

R67
R52/53
R36/38
R45

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H350 May cause cancer.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H412 Harmful to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.

Precautionary statements

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P264 Wash...thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.

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

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

Name: Trichloroethylene, *stabilized with ethanol
Formula: Cl₂CClCH M.= 131,39 CAS [79-01-6]
EC number (EINECS): 201-167-4
EC index number: 602-027-00-9
REACH Registration Number: 01-2119490731-36-XXXX

4. First aid measures

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:

Precaution in the event of vomiting (there is a risk of aspiration). Laxatives: sodium sulphate (1 soup-spoonful in 250 ml of water). Administer Vaseline oil as a laxative (3 ml/kg). Administer a solution of medical-usage active charcoal. Do not administer castor oil. Do not drink milk. Do not drink ethyl alcohol. Call for medical help.

5. Firefighting measures

5.1 Suitable extinguishing media:

As appropriate to the environment.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. 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, Cl₂, COCl₂. Precipitate fumes formed with water. Cool the recipients with water.

5.4 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.

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.

Recommended storage temperature: Room temperature.

8. Exposure controls/personal protection

8.1 Exposure controls:

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

8.2 Control parameters:

VLA-EC: 546 mg/m³ VLA-ED: 273 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use Full Facial Mask Filter A3.

8.4 Hand protection:

Use suitable gloves neopren or nitrile

8.5 Eye/face protection:

Use safety glasses.

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: -84,8 °C

Initial boiling point and boiling range: 86,7 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 9 %(V) / 7,9 %(V)

Vapour pressure: 77 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repeticion

(20/4) 1,46 g/ml

Solubility: 0,4 g/l in water (20 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 410 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: 0,55 mPa.s (20 °C)

10. Stability and reactivity

10.1 Conditions to avoid:

High temperatures.

10.2 Incompatible materials:

Perchloric acid. Light metals Metals (powder). Alkaline metals. Alkali-earth metals. Alkaline hydroxides. Alkaline amides. Oxygen Oxygen Alkaline solutions. Nitrogen oxides. Semimetallic hydrogen compounds.

10.3 Hazardous decomposition products:

COCl₂. Hydrogen chloride. Chlorine.

10.4 Chemical stability:

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

11. Toxicological information

11.1 Acute toxicity:

LD50 oral mus : 2.402 mg/kg

LD L0 oral rbt : 7.330 mg/kg

LD L0 oral man : 7.000 mg/kg

LD50 skn rbt : 12.124 mg/kg

LC L0 inh man : 2900 ppm

LC50 inh rat : 64.8 mg/m³ 4h

11.2 Dangerous effects for health:

If fumes inhaled: Irritations to the mucosae coughing breathing difficulties Due to absorption: anxiety spasms narcosis If swallowed: nausea vomiting kidney problems hepatic problems Upon contact with the skin: irritations Through contact with the eyes: irritations After a period of latency: effects on the central nervous system

12. Environmental information

12.1 Toxicity:

- EC50 test (mg/l):

Bacteria (Photobacterium phosphoreum) 118 mg/l

Classification:

Highly toxic

Bacteria (Ps. putida) EC0 6 mg/l

Classification: Extr. toxic

Algae (Sc. quadricauda) EC0 >1000 mg/l

Classification: Very toxic

Algae (M. aeruginosa) EC0 63 mg/l

Classification: Extr. toxic

Crustaceans (Daphnia magna) 1313 mg/l

Classification:

Very toxic

Fish (Leuciscus Idus) 136 mg/l

Classification:

Highly toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

- Observations:

Extremely ecotoxic in any medium, due to its non-biodegradability and bioaccumulation.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Non-biodegradable product.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

Bioaccumulable product.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

High pollutant product.

Maximum precaution handling it so as not to dump any.

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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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. Transport information

Overland (ADR):

Technical name: TRICHLOROETHYLENE

UN 1710 Class: 6.1 Packaging group: III (E)

By sea (IMDG):

Technical name: TRICHLOROETHYLENE

UN 1710 Class: 6.1 Packaging group: III

By air (ICAI-IATA):

Technical name: Trichloroethylene

UN 1710 Class: 6.1 Packaging group: III

Packaging instructions: CAO 663 PAX 655

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

P280 Wear protective gloves, protective clothing, eye protection or face protection.

P281 Use personal protective equipment as required.

P302+P352 IF ON SKIN: 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.

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).

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.

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

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): **R67** Vapours may cause drowsiness and dizziness.
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R36/38 Irritating to eyes and skin.
 R45 May cause cancer.

S-phrase(s): **S61** Avoid release to the environment. Refer to special instructions/safety data sheets.
 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.

Version and revision date : 6 28.04.2016

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In respect of the previous review, changes have been made to the following sections: 1,8

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.