



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

1455 Tetrachloroethylene

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

1.1 Product identifier

Name:

Tetrachloroethylene

Synonym:

Ethylene Tetrachloride, Perchloroethylene

REACH Registration Number: 01-2119475329-28-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.

Carc. 2

Aquatic Chronic 2

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

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

P273 Avoid release to the environment.

P281 Use personal protective equipment as required.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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: Tetrachloroethylene

Formula: $\text{Cl}_2\text{CCl}_2\text{C}$ M.= 165,83 CAS [127-18-4]

EC number (EINECS): 204-825-9

EC index number: 602-028-00-4

REACH Registration Number: 01-2119475329-28-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:

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. 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.

5. Firefighting measures

5.1 Extinguishing media:

As appropriate to the environment.

5.2 Special hazards arising from the substance or mixture:

Incombustible. The fumes are heavier than air, so they may spread at floor level. In the event of fire, toxic fumes may form: HCl, Cl₂, 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. Away from light.

Recommended storage temperature: Room temperature. Do not store in plastic containers.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

VLA-EC: 100 ppm = 689 mg/m³ VLA-ED: 25 ppm = 172 mg/m³

8.2 Exposure controls

No special indications.

Respiratory protection:

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

Hand protection:

Use suitable gloves

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Wash hands and face before breaks and when the job is done. Use suitable work clothing.

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:

N/A

Melting point/freezing point: -22,35 °C

Initial boiling point and boiling range: 121,2 °C

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: 19 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 1,622 g/ml

Solubility: 0,15 g/l in water (20 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: 0,89 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:

The product is chemically stable under standar ambient conditions (room temperature).

10.5 Incompatible materials:

Metals (powder). Alkaline metals. Alkali-earth metals. Alkaline hydroxides. Oxygen
Nitrogen oxides.

10.6 Hazardous decomposition products:

COCl₂. Hydrogen chloride. Chlorine.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD L0 oral rbt : 5.000 mg/kg

LD L0 oral rbt : 5 g/Kg

LD50 oral rat : 2.629 mg/kg

LC L0 inh man : 600 ppm 10 min

LC L0 inh rat : 34200 ppm 8h

LC50 inh rat : 34200 mg/m³ 8h

Dangerous effects for health:

If fumes inhaled: Irritations to the mucosae Due to absorption: headaches nausea vomiting narcosis If swallowed: nausea vomiting kidney problems hepatic problems Upon contact with the skin: irritations The following cannot be ruled out: dermatitis Risk of cutaneous absorption. Through contact with the eyes: irritations 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) 68 mg/l

Classification:

Extr. toxic

- Receptor medium:

Risk for the water environment

High

Risk for the land environment

High

- Observations:

Highly ecotoxic in any environment.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

Data not available.

12.3 Bioaccumulative potential:

- Test:

- Bioaccumulation:

Risk

- Observations:

Data not available.

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.

Do not allow it to enter soils or water channels.

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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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

UN1897

14.2 UN proper shipping name

TETRACHLOROETHYLENE

14.3 Transport hazard class(es)

6.1

14.4 Packing group

ADR/IMDG: III

IATA: III

14.5 Environmental hazards

CONTAM. MAR

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

P391 Collect spillage.

P405 Store locked up.

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.