



Safety Data Sheet According to Regulation (EC) 1907/2006

2373 Trichloroacetic Acid solution 20% w/v

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

1.1 Product identifier

Name:

Trichloroacetic Acid solution 20% w/v

CAS: [76-03-9]

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 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)

Tel.: (+34) 937 489 499

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Classification Regulation (CE) n° 1272/2008.

Skin Corr. 1A

Aquatic Chronic 2

STOT SE 3

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

Xi Irritant	R37
N Dangerous for the environment	R51/53
C Corrosive	R35

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

- H314 Causes severe skin burns and eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H335 May cause respiratory irritation.

Precautionary statements

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash...thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing, eye protection or face protection.
- P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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: Trichloroacetic Acid solution 20% w/v
Formula: CCl₃COOH M.= 163,39 CAS [76-03-9]
EC number (EINECS): 200-927-2
EC index number: 607-004-00-7

COMPOSITION:

0001: Trichloroacetic Acid

Formula: CCl_3COOH M.= 163,39 CAS [76-03-9]
EC number (EINECS): 200-927-2
EC index number: 607-004-00-7
REACH Registration Number: 01-2119485186-30-XXXX

Content: 20 %

Classification Regulation (CE) n° 1272/2008.

Skin Corr. 1A
Aquatic Chronic 1
STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.
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P264 Wash...thoroughly after handling.
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P280 Wear protective gloves, protective clothing, eye protection or face protection.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
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.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see on this label).
P363 Wash contaminated clothing before reuse.
P405 Store locked up.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P271 Use only outdoors or in a well-ventilated area.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P391 Collect spillage.

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

Xi Irritant	R37 Irritating to respiratory system.
N Dangerous for the environment	R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
C Corrosive	R35 Causes severe burns.

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 immediately to provide artificial respiration. Seek immediate medical assistance.

4.3 Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. Take the product out with cotton wool soaked in polyethylene-glycol 400.

4.4 Eyes:

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

4.5 Swallowing:

Drink large amounts of water. Avoid vomiting (there is a risk of perforation). Seek immediate medical assistance.

5. Firefighting measures

5.1 Suitable extinguishing media:

As appropriate to the environment. Use atomized water to wash down any fumes given off.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Incombustible. In the event of fire, toxic fumes may form: phosgene CO.

5.4 Advice for firefighters:

Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid contact with the skin, eyes or clothing.

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:

Neutralize with diluted sodium hydroxide. 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:

Possible formation of pressure inside the container. Limited shelf-life.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Dry atmosphere. In a cool place. In well ventilated premises. Away from light.

8. Exposure controls/personal protection

8.1 Exposure controls:

No special indications.

8.2 Control parameters:

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/face protection:

Use suitable goggles.

8.6 Individual hygiene measures:

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

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: Odourless.

pH: ~0,3

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point:

N/A

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A
Relative density:

Insertar Aquí Grupo de repetición

1,10 g/ml

Solubility: Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity:

N/A

10. Stability and reactivity

10.1 Conditions to avoid:

High temperatures.

10.2 Incompatible materials:

Alkaline solutions.

10.3 Hazardous decomposition products:

Hydrogen chloride. Carbon dioxide. Carbon monoxide. Phosgene.

10.4 Chemical stability:

Heat sensitive. Light-sensitive.

11. Toxicological information

11.1 Acute toxicity:

TDL0 oral rat : 3.300 mg/kg (referring to the anhydrous substance)

LD50 oral rat : 5.000 mg/kg (referring to the anhydrous substance)

11.2 Dangerous effects for health:

If fumes inhaled: Irritations to the respiratory tracts. Causes coughing breathing difficulties Upon contact with the skin: burns Through contact with the eyes: burns blindness (irreversible injury of the optic nerve) If swallowed: Irritations of the mucosae in the mouth, throat, oesophagus and intestinal tract. 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*)

(For anhydrous subs.) 35 mg/l

Classification:

Extr. toxic

Algae (*Sc. quadricauda*)

(For anhydrous subs.) 200 mg/l

Classification:

Highly toxic

Algae (*M. aeruginosa*)

(For anhydrous subs.) 250 mg/l

Classification:

Highly toxic

Crustaceans (*Daphnia magna*)

(For anhydrous subs.) 2000 mg/l

Classification:

Very toxic

Fish (*P. promelas*)

(For anhydrous subs.) 1000 mg/l

Classification:

Very toxic

- Receptor medium:

Risk for the water environment

Medium

Risk for the land environment

Low

- Observations:

The ecotoxicity is due to the pH deviation.

12.2 Persistence and Degradability :

- Test:

- Biotic degradation classification:

BOD5/COD

Biodegradability

- Abiotic degradation depending on pH:

- Observations:

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.

Data refer to the pure substance.

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: TRICHLOROACETIC ACID SOLUTION

UN 2564 Class: 8 PELIG.M.AMB Packaging group: II (E)

By sea (IMDG):

Technical name: TRICHLOROACETIC ACID SOLUTION

UN 2564 Class: 8 PELIG.M.AMB Packaging group: II

By air (ICAI-IATA):

Technical name: Trichloroacetic acid solution

UN 2564 Class: 8 PELIG.M.AMB Packaging group: II

Packaging instructions: CAO 855 PAX 851

15. Regulatory information

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

16. Other information

Other precautionary statements

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.

P310 Immediately call a POISON CENTER or doctor/physician.

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P405 Store locked up.

P261 Avoid breathing dust, fume, gas, mist, vapours or spray.

P271 Use only outdoors or in a well-ventilated area.

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

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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

R-phrase(s): **R37** Irritating to respiratory system.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R35 Causes severe burns.

S-phrase(s): **S60** This material and its container must be disposed of as hazardous waste.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Version and revision date : 5 10.10.2014

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 2, 16

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.