



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

131810 **Propionic Acid** (Reag. Ph. Eur.) PA-ACS

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

1.1 Identification of the substance or preparation

Name:

Propionic Acid

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.

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2. Identification of dangers

Causes burns.

3. Component Composition/Information

Name: Propionic Acid

Formula: $\text{CH}_3\text{CH}_2\text{COOH}$ M.=74,08 CAS [79-09-4]

EC number (EINECS): 201-176-3

EC index number: 607-089-00-0

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.

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. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Dry powder.

5.2 Fire-fighting means which must NOT be used:

5.3 Special risks:

Combustible. May form explosive mixtures with the air. Keep away from sources of ignition.

5.4 Protective equipment:

6. Measures to be taken in the event of accidental spillage

6.1 Individual precautions:

6.2 Precautions for care of the environment:

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:

Handle under an extractor fan.

7.2 Storage:

Well sealed containers. In a cool place.

8. Staff exposure/protection controls

8.1 Technical protective measures:

8.2 Exposure limit control:

TLV-TWA: 10 ppm or 30 mg/m³

VLA-ED: 10 ppm or 31 mg/m³

VLA-EC: 20 ppm or 62 mg/m³

8.3 Respiratory protection:

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

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. Do not inhale the substance.

8.7 Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

The supplier of the protection equipment must specify the type of protection to be worn when handling the substance or preparation, including the type of material and the breakthrough time of the material, with regard to the amount and duration of exposure.

9. Physical and chemical properties

Appearance:

Transparent, colourless liquid.

Odour:

Characteristic.

pH 2,5(100g/l)

Boiling point: 141,1°C

Melting point: -22°C

Flash point: 54°C

Self-ignition temperature: 485°C

Explosion limits (lower/upper): 2,1/12 Vol. %

Vapour pressure: (20°C) 2,9 hPa

Density (20/4): 0,991

Solubility: Soluble in water.

10. Stability and reactivity

10.1 Conditions which should be avoided:

10.2 Matter which should be avoided:

Strong oxidant agents.

10.3 Hazardous decomposition products:

10.4 Complementary information:

11. Toxicological information

11.1 Acute toxicity:

LD₅₀ oral rat: 3500 mg/kg

LD₅₀ dermal rabbit: 500 mg/kg

Rabbit skin sensitization test: 495 mg/72h: highly

Eye irritation test (rabbits): 0,99 mg/72h: highly

11.2 Dangerous effects for health:

If inhaled: coughing, breathing difficulties. Irritations to the mucosae

Upon contact with the skin: burns.

Through contact with the eyes: burns.

If swallowed: vomiting, diarrhoea. 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 Mobility:

Repartition: $\log P(\text{oct}) = 1,88$

12.2 Ecotoxicity:

12.2.1 - EC_{50} test (mg/l):

Fish $EC_{0} = 6000$ mg/l ; Classification: Very toxic

Fish $EC_{50} = 500$ mg/l ; Classification: Highly toxic

12.2.2 - Receptor medium:

Risk for the water environment = Low

Risk for the land environment = Low

12.2.3 - Observations:

Acute ecotoxicity in the dumping area.

12.3 Degradability:

12.3.1 - Test: $BOD_5 = \text{-----}$

12.3.2 - Biotic degradation classification:

BOD_5/COD Biodegradability = -----

12.3.3 - Abiotic degradation depending on pH: -----

12.3.4 - Observations:

Easily biodegradable product.

12.4 Accumulation:

12.4.1 - Test:

12.4.2 - Bioaccumulation:

Risk = -----

12.4.3 - Observations:

Non-bioaccumulable product.

12.5 Other possible effects on the environment:

If suitable handling conditions are maintained, no ecological problems are to be anticipated.

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.

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.

14. Information concerning transport

Overland (ADR):

Technical name: **ÁCIDO PROPIÓNICO CON IGUAL O MAYOR DEL 90% DE ÁCIDO POR PESO**

ONU 3463 Class: 8 Packaging group: II (D/E)

By sea (IMDG):

Technical name: **ÁCIDO PROPIÓNICO CON IGUAL O MAYOR DEL 90% DE ÁCIDO POR PESO**

ONU 3463 Class: 8 Packaging group: II

By air (ICAI-IATA):


Technical name: **Ácido propiónico con igual o mayor del 90% de ácido por peso**

ONU 3463 Class: 8 Packaging group: II

Packaging instructions: **CAO 812 PAX 808**

15. Mandatory information

15.1 Labelling as per REACH

Symbols: 

Danger indications: Corrosive

Phrases R: 34 Causes burns.

Phrases S: 23c-36-45 Do not breathe vapour. Wear suitable protective clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

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16. Other information

Review number and date: 1 07.06.09

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