

Safety Data Sheet

According to Regulation (EC) 1907/2006



6999 β - Propiolactone 97 %

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

1.1 Product identifier

Name:

β - Propiolactone 97 %

Synonym:

3-Hydroxypropionic acid lactone, β -Propionolide, Hydracrylic acid β -lactone

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^o 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

Classification of the substance or the mixture.

Classification Regulation (CE) n^o 1272/2008.

Acute Toxicity Inhalation cat. 2

Carc. 1B

Skin Irrit. 2

Eye Irrit. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H330 Fatal if inhaled.
H350 May cause cancer.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P284 Wear respiratory protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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 toxic	R26
Xi Irritant	R45
	R36/38

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

3. Composition/information on ingredients

Name: β - Propiolactone 97 %
Formula: C₃H₄O₂ M.= 72,06 CAS [57-57-8]
EC number (EINECS): 200-340-1
EC index number: 606-031-00-1

4. First aid measures

4.1 General indications:

Never provide drink or induce vomiting in the event of loss of consciousness. In the event of respiratory stoppage, apply artificial respiration immediately.

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 soap and water. Remove contaminated clothing. Seek immediate medical assistance.

4.4 Eyes:

Wash with plenty of water, keeping eyelids open. Seek immediate medical assistance.

4.5 Swallowing:

Avoid vomiting. Wash mouth out immediately. Drink large amounts of water. Seek immediate medical assistance.

5. Firefighting measures

5.1 Suitable extinguishing media:

Carbon dioxide (CO₂). Dry powder. Foam. Atomized water.

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

In the event of fire, toxic fumes may form: CO y CO₂.

5.4 Advice for firefighters:

Self-contained breathing equipment. Suitable clothing and footwear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Keep unprotected personnel upwind. Ensure adequate ventilation.

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.

7. Handling and storage

7.1 Precautions for safe handling:

Do not inhale the fumes. Ensure good ventilation and renewal of the air in the premises. Handle with caution. Moisture-sensitive. Handle under argon atmosphere.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. Cooled (below -15°C) In a cool, dry place, away from light and well ventilated. Away from sources of ignition and heat. Restricted access, only authorized to technicians.

8. Exposure controls/personal protection

8.1 Exposure controls:

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

8.2 Control parameters:

TLV-TWA: 0,5 ppm - 15 mg/m³ (ACGIH 1990-1991),

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 face mask.

8.6 Individual hygiene measures:

Use complete protective equipment. Wash hands and face before breaks and when the job is done. Do not eat, drink or smoke in the workplace.

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: N/A

pH:

N/A

Melting point/freezing point: -34 °C

Initial boiling point and boiling range: 161 - 163 °C (dec.)

Flash point: 70 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: / 2,9 %(V)

Vapour pressure: 3 hPa

Vapour density: N/A

Relative density: (20/4) 1,146

Solubility: in ()Miscible with alcohol and ether. in ()Miscible with acetone and chloroform.

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. Humidity.

10.2 Incompatible materials:

Strong oxidant agents. Water.

10.3 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide.

10.4 Chemical stability:

Extremely sensitive to moisture. Tends to polymerize.

11. Toxicological information

11.1 Acute toxicity:

LC50 inh rat : 25 ppm 6h

11.2 Dangerous effects for health:

Irritations to the skin and mucosae. Carcinogenic in animal testing.

12. Environmental information

12.1 Toxicity:

Risk for the water environment High
Major ecotoxic effect in water environments.

12.2 Persistence and Degradability :

Biodegradable product.

12.3 Bioaccumulative potential:

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:

Do not allow it to enter soils or water channels.

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: TOXIC BY INHALATION LIQUID, N.O.S.

UN 3382 Class: 6.1 CONTAM. MAR Packaging group: I (C/D)

By sea (IMDG):

Technical name: TOXIC BY INHALATION LIQUID, N.O.S.

UN 3382 Class: 6.1 CONTAM. MAR Packaging group: I

By air (ICAI-IATA):

Technical name: Toxic by inhalation liquid n.o.s.

UN 3382 Class: 6.1 CONTAM. MAR Packaging group: -

Packaging instructions: CAO P PAX P

15. Regulatory information

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

For this product a chemical safety assessment was not carried out.

16. Other information

Other precautionary statements

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

R-phrase(s):	R26 Very toxic by inhalation. R45 May cause cancer. R36/38 Irritating to eyes and skin.
S-phrase(s):	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 : 2 25.02.2013

Replaced: 28.01.2013

In respect of the previous review, changes have been made to the following sections: 7

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.