



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

1278 Collodion solution

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

1.1 Product identifier

Name:

Collodion solution

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.

Flam. Liq. 1

Acute Tox. 4

STOT SE 3

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

Xn Harmful	R66
F+ Extremely flammable	R22
	R19
	R12
	R67

2.2 Label elements:

Hazard Pictograms



Signal word

Danger

Hazard statements

H224 Extremely flammable liquid and vapour.

EUH019 May form explosive peroxides.

H302 Harmful if swallowed.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

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: Collodion solution

COMPOSITION:

0001: Diethyl Ether *stabilized with ~6 ppm of BHT

Formula: C₂H₅OC₂H₅ M.= 74,12 CAS [60-29-7]

EC number (EINECS): 200-467-2

EC index number: 603-022-00-4

REACH Registration Number: 01-2119535785-29-XXXX

Content: >= 50 %

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 1

Acute Tox. 4

STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H224 Extremely flammable liquid and vapour.

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

EUH019 May form explosive peroxides.

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P243 Take precautionary measures against static discharge.
- P233 Keep container tightly closed.
- P264 Wash...thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, protective clothing, eye protection or face protection.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
- P330 Rinse mouth.
- P370+P378 In case of fire: Use for extinction.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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

- | | |
|-------------------------------|--|
| F+ Extremely flammable | R12 Extremely flammable. |
| Xn Harmful | R19 May form explosive peroxides. |
| | R22 Harmful if swallowed. |
| | R66 Repeated exposure may cause skin dryness or cracking. |
| | R67 Vapours may cause drowsiness and dizziness. |

0002: Ethanol absolute

Formula: CH₃CH₂OH M.= 46,07 CAS [64-17-5]
EC number (EINECS): 200-578-6
EC index number: 603-002-00-5
REACH Registration Number: 01-2119457610-43-XXXX

Content: >= 15 % <= 30 %

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

P243 Take precautionary measures against static discharge.

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

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P370+P378 In case of fire: Use for extinction.

P403+P235 Store in a well-ventilated place. Keep cool.

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

F Highly flammable **R11** Highly flammable.

0003: Nitrocellulose E-130-ISO 30%

CAS [9004-70-0]

EC number (EINECS): 603-037-6

Content: $\geq 5\%$ $\leq 15\%$

Classification Regulation (CE) n° 1272/2008.

Flam. Liq. 2

Eye Irrit. 2

STOT SE 3

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting/equipment.
P242 Use only non-sparking tools.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.
P243 Take precautionary measures against static discharge.
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.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P370+P378 In case of fire: Use for extinction.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

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

Xi Irritant	R67 Vapours may cause drowsiness and dizziness.
F Highly flammable	R36 Irritating to eyes.
	R11 Highly flammable.

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. In the event sickness persists, seek medical assistance.

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:

Do not induce vomiting. Risk of aspiration. Call for medical help. Administer Vaseline oil as a laxative (3 ml/kg). Keep respiratory tracts clear.

5. Firefighting measures

5.1 Suitable extinguishing media:

Dry powder. Alcohol resistant foam. Carbon dioxide (CO₂).

5.2 Unsuitable extinguishing media:

No specific data.

5.3 Special hazards arising from the substance or mixture:

Flammable. Keep away from sources of ignition. Risk of inflammation due to accumulation of electrostatic charges. The fumes are heavier than air, so they may spread at floor level. In the event of fire, toxic fumes may form: NO_x. Possible re-ignition. Precipitate fumes formed with water.

5.4 Advice for firefighters:

Self-contained breathing equipment.

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:

Avoid the formation of electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities:

Well sealed containers. In a cool, dry place, away from light and well ventilated. Away from sources of ignition and heat.

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:

Data not available.
MAK (diethyl ether) 400 ml/m³; 1.200 mg/m³

8.3 Respiratory protection:

In the event of fumes forming/aerosols, use suitable respiratory protection. Filter AX3.

8.4 Hand protection:

Use suitable gloves nitrile or neopren

8.5 Eye/face protection:

Use safety glasses.

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:

N/A

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range: 34,6 °C 1.000 hPa

Flash point: - 52 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 36 %(V) / 1,7 %(V)

Vapour pressure: 576 hPa (20 °C)

Vapour density: N/A

Relative density:

Insertar Aquí Grupo de repeticion

(25/4) 0,765 g/ml

Solubility: in () Inmiscible with water.

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 170 °C

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:

Oxidant agents. Alkaline metals.

10.3 Hazardous decomposition products:

Nitrous fumes. Ether.

10.4 Chemical stability:

Light-sensitive. Explosive when dry. The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

: Data not available.

11.2 Dangerous effects for health:

The data we have are insufficient for correct toxicological assessment. Based on the physico-chemical properties, the likely dangerous characteristics are: Systemic effects: drowsiness dizziness euphoria anxiety spasms narcosis Other dangerous characteristics are not discarded. Take the usual precautions for handling chemical products.

12. Environmental information

12.1 Toxicity:

- **EC50 test (mg/l):**

- **Receptor medium:**

Risk for the water environment

Risk for the land environment

- **Observations:**

Ecotoxic data not available.

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:

Do not allow it to enter soils or water channels.

Environmental risks cannot be excluded if used and/or disposed of inappropriately.

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: NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose

UN 2059 Class: 3 Packaging group: I (B)

By sea (IMDG):

Technical name: NITROCELLULOSE SOLUTION, FLAMMABLE with not more than 12.6% nitrogen, by dry mass, and not more than 55% nitrocellulose

UN 2059 Class: 3 Packaging group: I

By air (ICAI-IATA):

Technical name: Nitrocellulose solution, flammable

UN 2059 Class: 3 Packaging group: I

Packaging instructions: CAO 361 PAX 351

15. Regulatory information

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

16. Other information

Other precautionary statements

- P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust, fume, gas, mist, vapours or spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection or face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P330 Rinse mouth.
P370+P378 In case of fire: Use for extinction.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.

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

- R-phrase(s): **R66** Repeated exposure may cause skin dryness or cracking.
 R22 Harmful if swallowed.
 R19 May form explosive peroxides.
 R12 Extremely flammable.
 R67 Vapours may cause drowsiness and dizziness.
- S-phrase(s): **S33** Take precautionary measures against static discharges.
 S29 Do not empty into drains.
 S16 Keep away from sources of ignition - No smoking.
 S9 Keep container in a well-ventilated place.

Version and revision date : 5 30.05.2016

Date published: 15.09.2011

In respect of the previous review, changes have been made to the following sections: 3

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.