



1917 Carnoy's Fixing

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

1.1 Identification of the substance or preparation

Name:

Carnoy's Fixing

Synonym:

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 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.

C/Garraf 2

Polígono Pla de la Bruguera

E-08211 Castellar del Vallès

(Barcelona) Spain

Tel. (+34) 937 489 400

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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° 1272/2008.

Flam. Liq. 2

Carc. 2

STOT RE 2

Eye Irrit. 2

Skin Irrit. 2

Hazard Pictograms



Signal word

Danger

Hazard statements

H225 Highly flammable liquid and vapour.

H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

Precautionary statements

P201 Obtain special instructions before use.

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

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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

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

Xn Harmful	R36/38
F Highly flammable	R48/20/22
	R40
	R10

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

3. Component Composition/Information

Name: Carnoy's Fixing

Composition:

0001: Acetic Acid glacial

Formula: CH₃COOH M.= 60,05 CAS [64-19-7]

EC number (EINECS): 200-580-7

EC index number: 607-002-00-6

Content: <= 15 %

Classification Regulation (CE) nº 1272/2008.

Flam. Liq. 3, Skin Corr. 1A

Hazard Pictograms



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. 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.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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).

P338 Remove contact lenses, if present and easy to do. Continue rinsing.

P363 Wash contaminated clothing before reuse.

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

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

P405 Store locked up.

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

R10, R35 Flammable.

0002: Trichloromethane stabilized with ethanol

Formula: CHCl_3 M.= 119,38 CAS [67-66-3]

EC number (EINECS): 200-663-8

EC index number: 602-006-00-4

Content: $\geq 25\%$ $\leq 35\%$

Classification Regulation (CE) nº 1272/2008.

Acute Tox. 4
Skin Irrit. 2
Carc. 2

Hazard Pictograms



Signal word

Warning

Hazard statements

H302 Harmful if swallowed.
H315 Causes skin irritation.
H351 Suspected of causing cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.
H373 May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Precautionary statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash...thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P321 Specific treatment (see on this label).
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P405 Store locked up.
P501 Dispose of contents/container according to Directive 94/62/CE or 2008/98/CE.

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

Xn Harmful

R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.

R40 Limited evidence of a carcinogenic effect.

R38 Irritating to skin.

R22 Harmful if swallowed.

0003: Ethanol absolute *partially denatured

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: >= 50 % <= 70 %

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/sparks/open flames/hot surfaces. 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/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.

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. 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.

4.4 Eyes:

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

4.5 Swallowing:

Avoid vomiting. Do not drink milk. Drink large amounts of water. Seek immediate medical assistance.

5. Fire-fighting means

5.1 Suitable fire-extinguishing means:

Water. Carbon dioxide (CO₂). Foam. Dry powder.

5.2 Fire-fighting means which must NOT be used:

No specific data.

5.3 Special risks:

Flammable. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Risk of inflammation due to accumulation of electrostatic charges.

5.4 Protective equipment:

Suitable clothing and footwear.

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

6.1 Individual precautions:

Do not inhale the fumes.

6.2 Precautions for care of the environment:

Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.

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.

7. Handling and storage

7.1 Handling:

No special indications.

7.2 Storage:

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat.

8. Staff exposure/protection controls

8.1 Technical protective measures:

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

8.2 Exposure limit control:

VLA-EC(CH₃COOH): 37 mg/m³

VLA-EC(CH₃COOH): 15 ppm

VLA-ED(C₂H₄O₂): 25 mg/m³

VLA-ED(C₂H₄O₂): 10 ppm

VLA-ED(CHCl₃): 10 ppm - 50 mg/m³

VLA-ED(ethanol): 1.000 ppm - 1.910 mg/m³

8.3 Respiratory protection:

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

8.4 Hand protection:

Use suitable gloves neopren PVC nitrile

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. Use complete protective equipment.

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: Ethanolic.

pH:

N/A

Melting point/freezing point: N/A

Initial boiling point and boiling range:

N/A

Flash point: 24,7 °C (closed cup)

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits:

N/A

Vapour pressure: N/A

Vapour density: N/A

Relative density: (20/4) 1,022

Solubility: in Miscible with water

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature:

N/A

Decomposition temperature: N/A

Viscosity: N/A

10. Stability and reactivity

10.1 Conditions which should be avoided:

High temperatures.

10.2 Matter which should be avoided:

Metals. Oxidant agents. Peroxides. Fluorine. Strong bases. Ketones. Alkaline solutions. Alcoholates. Alkaline hydroxides. Alcohols. Nitrogen organic compounds. Alkaline amides. Oxygen Oxygen Alkaline solutions. Nitrogen oxides. Non-metal hydrides. Bis-(dimethylamino)-dimethyltin

10.3 Hazardous decomposition products:

Hydrogen chloride. Chlorine.

10.4 Complementary information:

The gases/fumes can form explosive mixtures with the air.

11. Toxicological information

11.1 Acute toxicity:

LD L0 oral man : 140 mg/kg CHCl₃
LD50 oral rat : 908 mg/kg CHCl₃
LC L0 inh man : 25000 ppm (V) CHCl₃ 5 min
LC50 inh rat : 75 mg/l CHCl₃ 1h

11.2 Dangerous effects for health:

Possible carcinogen. Pregnant women must not be allowed to come into contact with the product. Possible risk of adverse effects to the foetus during pregnancy. If fumes inhaled: coughing breathing difficulties narcosis Due to absorption: anxiety spasms After a period of latency: vomiting diarrhoea respiratory paralysis coma Upon contact with the skin: irritations Risk of cutaneous absorption. Through contact with the eyes: Irritations to the mucosae The following cannot be ruled out: kidney problems hepatic problems

12. Environmental information

12.1 Toxicity:

12.1.1 - EC50 test (mg/l):
Bacteria (Photobacterium phosphoreum) 47000 mg/l

Classification:

Toxic

Bacteria (Ps. putida) EC0 >6500 mg/l

Classification: Toxic

Algae (Sc. quadricauda) EC0 >5000 mg/l

Classification: Toxic

Algae (M. aeruginosa) EC0 >1450 mg/l

Classification: Toxic

Crustaceans (Daphnia magna) EC0 >7800 mg/l

Classification: Toxic

Fish >10.000 mg/l

Classification:

Toxic or hardly toxic

12.1.2. - Receptor medium:

Risk for the water environment

Low

Risk for the land environment

Low

12.1.3. - Observations:

Non-ecotoxic compound if the dumping concentration is not very high.

12.2 Persistence and Degradability :

12.2.1 - Test:

12.2.2. - Biotic degradation classification:

BOD5/COD

Biodegradability

High, over 1/3

12.2.3. - Abiotic degradation depending on pH:

12.2.4. - Observations:

Easily biodegradable product.

12.3 Bioaccumulative potential:

12.3.1. - Test:

12.3.2. - Bioaccumulation:

Risk

12.3.3. - Observations:

Non-bioaccumulable product.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other possible effects on the environment:

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

DATA BASED on the components of the preparation.

(Major component:ethanol).

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.

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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. Information concerning transport

Overland (ADR):

Technical name: FLAMMABLE LIQUID, TOXIC, N.O.S.

UN 1992 Class: 3 6.1 Packaging group: III (D/E)

By sea (IMDG):

Technical name: FLAMMABLE LIQUID, TOXIC, N.O.S.

UN 1992 Class: 3 6.1 Packaging group: III

By air (ICAI-IATA):

Technical name: Flammable liquid, toxic, n.o.s.

UN 1992 Class: 3 6.1 Packaging group: III

Packaging instructions: CAO 366 PAX 355

15. Regulatory information

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

16. Other information

Other precautionary statements

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash...thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

P314 Get medical advice/attention if you feel unwell.

P321 Specific treatment (see on this label).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

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

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

P405 Store locked up.

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

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

R-phrases(s): **R36/38** Irritating to eyes and skin.
R48/20/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed.
R40 Limited evidence of a carcinogenic effect.
R10 Flammable.

S-phrase(s): **S36/37** Wear suitable protective clothing and gloves.

Review number and date: 4 28.10.2011

Date published: 28.10.2011

In respect of the previous review, changes have been made to the following sections: 9

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.

