



Safety Data Sheet According to Regulation (EU) 830/2015

1085 Ethanol 96% v/v

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

1.1 Product identifier

Name:

Ethanol 96% v/v

Synonym:

Ethyl Alcohol

REACH Registration Number: 01-2119457610-43-XXXX

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)

2. Identification of dangers

2.1 Classification of the substance or the mixture.

Flam. Liq. 2

Eye Irrit. 2

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye 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.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Ethanol 96% v/v

Formula: $\text{CH}_3\text{CH}_2\text{OH}$ 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

3.2 Mixtures

4. First aid measures

4.1 Description of first aid measures

Never provide drink or induce vomiting in the event of loss of consciousness.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Swallowing:

Drink large amounts of water. Do not administer emetics. Do not administer animal carbon. Do not drink milk. Call for medical help.

Inhaling:

Take the person out into the fresh air. In the event sickness persists, seek medical assistance.

Contact with the skin:

Wash with plenty of water. Remove contaminated clothing. In the event of irritation, seek medical assistance.

Eyes:

Wash with plenty of water, keeping eyelids open. In the event of irritation, seek medical assistance.

5. Firefighting measures

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture:

Flammable. Keep away from sources of ignition. Risk of inflammation due to accumulation of electrostatic charges. Auf Rückzündung achten Cool the recipients with water. Do not dispose of chemically polluted water into the soil, into water supplies or down drains. Take the necessary precautions to keep back the water used for subsequent elimination in accordance with D Do not allow extinguishing water into surface or underground water courses.

5.3 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Protect the respiratory tracts. Avoid contact with the skin, eyes or clothing. Keep unprotected personnel upwind.

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.

6.4 Reference to other sections

Not applicable

7. Handling and storage

7.1 Precautions for safe handling:

Ensure good ventilation and renewal of the air in the premises. Handle in a closed system.

7.2 Conditions for safe storage, including any incompatibilities:

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

Recommended storage temperature: Room temperature.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

VLA-ED: 1.000 ppm = 1.920 mg/m³

8.2 Exposure controls

Ensure good ventilation and renewal of the air in the premises. Control Parameters:

DNEL Values:

- Inhalation, acute: 19 mg/m³ (1000ppm) (local)
- Inhalation, long term: 950 mg/m³ (500ppm) (systemic)
- Dermal, long term: 343 mg/kg bw/dia (systemic)

PNEC Values:

- Freshwater: 0,96 mg/l
- Marine water: 0,79 mg/l
- Sediment, freshwater: 3,6 mg/kg dw
- Sediment, marine water: 2,9 mg/kg dw
- Soil: 0,63 mg/kg dw
- Oral: 0,72 g/kg of food

Respiratory protection:

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

Hand protection:

Use suitable gloves nitrile

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

Remove contaminated clothing. Wash hands before breaks and when the job is done.

Environmental exposure controls:

Fulfill the commitments under local environmental protection legislation.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid

Colour: Colourless

Granulometry: N/A

Odour: Characteristic.

pH:

N/A

Melting point/freezing point: -114,1 °C

Initial boiling point and boiling range: 78,5 °C

Flash point: 14 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: 13,5 %(V) / 2,5 %(V)

Vapour pressure: 57,26 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) 0,805 g/ml

Solubility: Miscible with water and most of the solvents

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: ~425 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: 1,2 mPa.s ()

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions

No specific data.

10.4 Conditions to avoid:

High temperatures.

10.5 Incompatible materials:

Oxidant agents (amongst others: perchloric acid, perchlorates, halogenates, CrO₃, halogen oxides, nitric acid, nitrogen oxides, non-metal oxides, chromo-sulphuric acid). Peroxides. Metal oxides. Mercury Nitrate. Silver Nitrate. Organometallic compound. Hydrogen. Phosphorus. Arsenic. Antimony. Magnesium perchlorate. Acids and oxidizing salts.

10.6 Hazardous decomposition products:

Carbon monoxide. Carbon dioxide.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD₅₀ oral rat : 6.200 - 15.000 mg/kg (OECD 401)

LC₅₀ inh rat : >50 mg/m³ (OECD 403)

Dangerous effects for health:

If fumes inhaled: Irritations to the mucosae Through contact with the eyes:

irritations If swallowed: May cause: nausea, vomiting Systemic effects:

intoxication vertigo narcosis respiratory paralysis

12. Environmental information

12.1 Toxicity:

- 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

- Receptor medium:

Risk for the water environment Low

Risk for the land environment Low

- Observations:

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

12.2 Persistence and Degradability :

- Biotic degradation classification:

BOD5/COD Biodegradability = > 1/3

High.

Easily biodegradable product.

12.3 Bioaccumulative potential:

Non-bioaccumulable product.

12.4 Mobility in soil :

Data not available.

12.5 Assessment PBT and MPMB :

Data not available.

12.6 Other adverse effects:

Non-pollutant product.

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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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

14.1 UN number

UN1170

14.2 UN proper shipping name

ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)

14.3 Transport hazard class(es)

3

14.4 Packing group

ADR/IMDG: II

IATA: II

14.5 Environmental hazards

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The substance is subject to Council Directive 92/12/CEE of 25 February 1992, about the general system, possession, circulation and controls of the products subject to excise taxes and its modifications: (Directive 92/108/CEE, Directive 94/74/CE, Directive 96/99/CE, Directive 2000/44/CE, Directive 2000/47/CE, Regulation CE n° 807/2003 and Directive 2004/106/CE), subject to Council Directive 92/83/CEE, of 19 October 1992, harmonization of the structures of excise taxes on alcohol and alcoholic beverages and Council Directive 92/84/EEC of 19 October 1992 on the approximation of the rates of excise duty on alcohol and alcoholic beverages.

15.2 Chemical safety assessment

Not applicable

16. Other information

Other precautionary statements

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.

P264 Wash...thoroughly after handling.

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

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

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

P264 Wash...thoroughly after handling.

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

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

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

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In respect of the previous review, changes have been made to the following sections: 1,2,4,5,6,7,8,9,10,11,13,14,15

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.