



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

1318 Ethyl Acetate

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

1.1 Product identifier

Name:

Ethyl Acetate

Synonym:

Acetic Acid Ethyl Ester, Acetic Ether

REACH Registration Number: 01-2119475103-46-XXXX

1.2 Relevant identified uses of the substance or mixture:

Production of the substance.

Distribution of Substance.

Formulation and repackaging of substances and mixtures

Manufacture or use as reaction or extraction solvent

Agrochemical use.

Use as laboratory chemicals.

Uses in Coatings.

Cosmetics and personal care products.

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

STOT SE 3

2.2 Label elements:

Hazard Pictograms



Signal word

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

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.

2.3 Other hazards:

No further relevant information available.

3. Composition/information on ingredients

3.1 Substances

Name: Ethyl Acetate

Formula: $\text{CH}_3\text{COOC}_2\text{H}_5$ M.= 88,10 CAS [141-78-6]

EC number (EINECS): 205-500-4

EC index number: 607-022-00-5

REACH Registration Number: 01-2119475103-46-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:

Wash mouth out immediately. Call for medical help. Precaution in the event of vomiting (there is a risk of aspiration). Administer a solution of medical-usage active charcoal.

· Most important symptoms and effects, both acute and delayed:

See Section 11 for more information.

· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

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.

Contact with the skin:

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

Eyes:

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

5. Firefighting measures

5.1 Extinguishing media:

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

5.2 Special hazards arising from the substance or mixture:

Combustible. Keep away from sources of ignition. The fumes are heavier than air, so they may spread at floor level. Auf Rückzündung achten In the event of fire, toxic fumes may form: CO y CO₂., acetic acid. Precipitate fumes formed with water.

5.3 Advice for firefighters:

Suitable clothing and footwear. Self-contained breathing equipment. Cool the recipients with water.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Do not inhale the fumes. Use personal protective equipment as required. Avoid contact with the skin, eyes or clothing. Avoid sources of ignition. Do not smoke. Ensure good ventilation and renewal of the air in the premises.

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.

6.4 Reference to other sections

Not applicable

7. Handling and storage

7.1 Precautions for safe handling:

Avoid the formation of electrostatic charges. Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours or spray. Avoid contact with the skin, eyes or clothing. Use personal protective equipment as required. Handle with caution.

7.2 Conditions for safe storage, including any incompatibilities:

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

Recommended storage temperature: Room temperature. **Storage class:** 3

Technical instructions (air): Highly flammable.

7.3 Specific end use(s):

No further relevant information available.

7.3 Specific end use(s)

No more relevant data available

8. Exposure controls/personal protection

8.1 Control parameters:

VLA-ED: 400 ppm = 1.460 mg/m³ Factor for short-term value(Germany): 2

Derived No Effect Level (DNEL)

Workers Inhalation, acute (systemic): 1.468 mg/m³ Workers Inhalation, acute (local): 1.468 mg/m³ Workers Dermal, long exposure (systemic): 63mg/kg bw/24hWorkers Inhalation, long term (systemic): 34 mg/m³ Workers Inhalation, long term (local): 734 mg/m³ Population Inhalation, acute (systemic): 734 mg/m³ Population Inhalation, acute (local): 734 mg/m³ Population, Dermal, long exposure (systemic): 37mg/kg bw/24hPopulation Inhalation, long term (systemic): 367 mg/m³ Population, oral, long term (systemic): 4.5mg/kg bw/24hPopulation Inhalation, long term (local): 367 mg/m³

Predicted No Effect Concentration (PNEC)

Freshwater: 0.26mg/lMarine water: 0.026mg/lFreshwater Sediment: 1.25mg/kgMarine water Sediment: 0.125mg/kgSoil: 0.24mg/kgSTP: 650mg/l

8.2 Exposure controls

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

Respiratory protection:

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

Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Material: Butyl rubber. Recommended thickness of the material: ≥ 0.5 mm

Breakthrough time: ≥ 480 min.

- **As protection from splashes gloves made of the following materials are suitable:**

Material: Butyl rubber. Recommended thickness of the material: ≥ 0.5 mm

Breakthrough time: ≥ 480 min.

Eye/face protection:

Use safety glasses.

Individual hygiene measures:

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

Environmental exposure controls:

Avoid pollution of the soil, water supplies and drains.

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: -83 °C

Initial boiling point and boiling range: 77 °C

Flash point: -4 °C

Flammability (solid, gas):

N/A

Upper/lower flammability or explosive limits: $11,5$ %(V) / $2,1$ %(V)

Vapour pressure: 97 hPa (20 °C)

Vapour density: N/A

Relative density: (20/4) $0,902$ g/ml

Solubility: 80 g/l in water (20 °C)

Partition coefficient: n-octanol/water:

N/A

Auto-ignition temperature: 430 °C

Decomposition temperature: N/A

Kinematic viscosity: N/A

Dynamic viscosity: $0,44$ mPa.s (20 °C)

9.2 Other information

No more relevant data available

10. Stability and reactivity

10.1 Reactivity

No specific data.

10.2 Chemical stability:

Light-sensitive. Exposure to air encourages decomposition. 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:

Alkaline metals. Fluorine. Hydrides. Strong oxidant agents.

10.6 Hazardous decomposition products:

Ethanol. Acetic acid.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD50 oral rbt : 4.934 mg/kg (OECD 401)

LD50 skn rbt : > 20.000 mg/kg

LC50 inh rat : >22,5 mg/l 8h

Dangerous effects for health:

Skin corrosion/irritation: Not irritant. **Serious eye damage/irritation:** Not irritant. **Respiratory or skin sensitisation:** Data not available. **Germ cell mutagenicity:** The results of test are negative. **Carcinogenicity:** Data not available. **Reproductive toxicity:** No evidence. **STOT- single exposure:** Low toxicity. **STOT-repeated exposure:** Risk of cutaneous effects, drowsiness, vertigo **Aspiration hazard:** Data not available.

•**Most important symptoms and effects acute:** If inhaled: In high concentrations:, Irritations to the mucosae and respiratory tracts., effects on the central nervous system, vertigo, headaches, narcosis, loss of consciousness Upon contact with the skin: In high concentrations:, Can de-moisturize and dehydrate it, producing irritation and dermatitis. Through contact with the eyes: irritations, slight If swallowed: nausea, vomiting, pneumonia., effects on the central nervous system Prolonged exposure can cause, blood alterations, loss of appetite, hepatic problems, kidney problems

12. Environmental information

12.1 Toxicity:

Acute toxicity for fish:

(Pimephales Promelas) LC50 230 mg/l (96h)

Acute toxicity for aquatic invertebrates:

(Daphnia magna) EC50 165 mg/l (48h)

Acute toxicity for Algae:

(Desmodesmus subspicatus) LC50 5600 mg/l (48h)

Chronic toxicity for fish:

(Pimephales Promelas) NOEC <9,65 mg/l (96h) (OCDE 212)

Chronic toxicity for aquatic invertebrates:

(Daphnia magna) NOEC 2,4 mg/l (21d)

Chronic toxicity for Algae:

Algae (Scenedesmus sp) NOEC >1000 mg/l (48h)

Classification:

Low ecotoxic impact.

12.2 Persistence and Degradability :

Easily biodegradable product.

12.3 Bioaccumulative potential:

BCF <500

Product with a low bioaccumulative potential.

12.4 Mobility in soil :

Product has a low potential for adsorption.

12.5 Assessment PBT and MPMB :

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Does not meet the criteria for PBT (persistent / bioaccumulative / toxic).

According to Annex XIII of Regulation (EC) No. 1907/2006 concerning the

Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH):

Does not meet the criteria vPvB (very persistent / very bioaccumulative).

12.6 Other adverse effects:

Hardly pollutant product.

12.7 General notes:

· Water hazard class:

(German Regulation) (Assessment by list):

1 slightly hazardous for water.

(Dutch Regulation):

10 May cause long-term adverse effects in the aquatic environment.

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

UN1173

14.2 UN proper shipping name

ETHYL ACETATE

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

For this product a chemical safety assessment was carried out.

15.2 Chemical safety assessment

Not applicable

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.

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.

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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.