

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name : Ethyl propionate

Product Number : W245615

Brand : Aldrich

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2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Highly flammable.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C₅H₁₀O₂

Molecular Weight : 102,13 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
Ethyl propionate				
105-37-3	203-291-4	607-028-00-8	F, R11	-

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

7. HANDLING AND STORAGE

Handling

Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Face shield and safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form liquid

Safety data

pH no data available
Melting point -73 °C - lit.
Boiling point 99 °C - lit.
Flash point 53,6 °C - closed cup
Ignition temperature no data available
Lower explosion limit 1,8 %(V)
Upper explosion limit 11 %(V)
Vapour pressure 40 hPa at 27,2 °C
20 hPa at 20 °C
Density 0,888 g/mL at 25 °C
Water solubility 0,02 g/l at 20 °C
Partition coefficient:
n-octanol/water log Pow: 1,20
Relative vapour
density 3,52

10. STABILITY AND REACTIVITY

Storage stability

Stable Stable under recommended storage conditions.

Conditions to avoid

Avoid moisture. Heat.
Heat, flames and sparks.

Materials to avoid

Oxidizing agents

11. TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral - rat - 8.732 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Other changes.
Gastrointestinal:Other changes.

Irritation and corrosion

Skin - rabbit - Skin irritation - 24 h

Remarks: Moderate skin irritation

Eyes - rabbit - Moderate eye irritation - 24 h

Remarks: Moderate eye irritation

Sensitisation

Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Signs and Symptoms of Exposure

Prolonged or repeated exposure may cause: narcosis, Gastrointestinal disturbance, Cough, chest pain, Difficulty in breathing, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Additional Information

RTECS: UF3675000

12. ECOLOGICAL INFORMATION

Elimination information (persistence and degradability)

Ecotoxicity effects

Further information on ecology

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID

UN-Number: 1195 Class: 3 Packing group: II
Proper shipping name: ETHYL PROPIONATE

IMDG

UN-Number: 1195 Class: 3 Packing group: II EMS-No: F-E, S-D
Proper shipping name: ETHYL PROPIONATE
Marine pollutant: No

IATA

UN-Number: 1195 Class: 3 Packing group: II
Proper shipping name: Ethyl propionate

15. REGULATORY INFORMATION

Labelling according to EC Directives

EC Label

Hazard symbols

F Highly flammable

R-phrase(s)

R11 Highly flammable.

S-phrase(s)

S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe gas/fumes/vapour/spray.
S24	Avoid contact with skin.
S29	Do not empty into drains.
S33	Take precautionary measures against static discharges.

16. OTHER INFORMATION

Further information

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