

## Material Safety Data Sheet

Version 4.0

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ethyl propionate

Product Number : 112305

Brand : Aldrich

Company : Sigma-Aldrich  
3050 Spruce Street  
SAINT LOUIS MO 63103  
USA

Telephone : +18003255832

Fax : +18003255052

Emergency Phone # : (314) 776-6555

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2. HAZARDS IDENTIFICATION

## Emergency Overview

## OSHA Hazards

Combustible Liquid, Irritant

## GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## HMIS Classification

Health hazard: 2

Flammability: 2

Physical hazards: 0

## NFPA Rating

Health hazard: 2

Fire: 2

Reactivity Hazard: 0

## Potential Health Effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C<sub>5</sub>H<sub>10</sub>O<sub>2</sub>

Molecular Weight : 102.13 g/mol

CAS-No.	EC-No.	Index-No.	Concentration
<b>Ethyl propionate</b>			
105-37-3	203-291-4	607-028-00-8	-

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#### 4. FIRST AID MEASURES

##### **General advice**

Move out of dangerous area. 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.

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#### 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.

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#### 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 and materials for containment and 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).

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#### 7. HANDLING AND STORAGE

##### **Precautions for safe 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.

##### **Conditions for safe storage**

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. Store in cool place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### 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

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.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form	liquid
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### Safety data

pH	no data available
Melting point	-73 °C (-99 °F) - lit.
Boiling point	99 °C (210 °F) - lit.
Flash point	53.6 °C (128.5 °F) - closed cup
Ignition temperature	no data available
Lower explosion limit	1.8 %(V)
Upper explosion limit	11 %(V)
Vapour pressure	40 hPa (30 mmHg) at 27.2 °C (81.0 °F) 20 hPa (15 mmHg) at 20 °C (68 °F)
Density	0.888 g/cm <sup>3</sup> at 25 °C (77 °F)
Water solubility	0.02 g/l at 20 °C (68 °F)
Partition coefficient: n-octanol/water	log Pow: 1.20
Relative vapour density	3.52

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## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable Stable under recommended storage conditions.

### Possibility of hazardous reactions

Vapours may form explosive mixture with air.

### Conditions to avoid

Avoid moisture. Heat.  
Heat, flames and sparks.

**Materials to avoid**

Oxidizing agents

**Hazardous decomposition products**

no data available

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**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.

**Skin corrosion/irritation**

Skin - rabbit - Skin irritation - 24 h

Remarks: Moderate skin irritation

**Serious eye damage/eye irritation**

Eyes - rabbit - Moderate eye irritation - 24 h

Remarks: Moderate eye irritation

**Respiratory or skin sensitization****Germ cell mutagenicity**

no data available

**Carcinogenicity**

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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (GHS)**

no data available

**Specific target organ toxicity - repeated exposure (GHS)**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

<b>Inhalation</b>	May be harmful if inhaled. Causes respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. Causes skin irritation.
<b>Eyes</b>	Causes eye irritation.

**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.

**Additional Information**

RTECS: UF3675000

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**12. ECOLOGICAL INFORMATION****Toxicity**

**Persistence and degradability****Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**PBT and vPvB assessment**

no data available

**Other adverse effects**

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**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.

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**14. TRANSPORT INFORMATION****DOT (US)**

UN-Number: 1195 Class: 3 Packing group: II  
Proper shipping name: Ethyl propionate  
Marine pollutant: No  
Poison Inhalation Hazard: No

**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

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**15. REGULATORY INFORMATION****OSHA Hazards**

Combustible Liquid, Irritant

**DSL Status**

All components of this product are on the Canadian DSL list.

**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Fire Hazard, Acute Health Hazard

**Massachusetts Right To Know Components**

Ethyl propionate

CAS-No.  
105-37-3

Revision Date  
1993-04-24

**Pennsylvania Right To Know Components**

Ethyl propionate

CAS-No.  
105-37-3

Revision Date  
1993-04-24

## New Jersey Right To Know Components

Ethyl propionate

CAS-No.  
105-37-3

Revision Date  
1993-04-24

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## 16. OTHER INFORMATION

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Co., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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