# SAFETY DATA SHEET

Version 3.5 Revision Date 05/11/2016 Print Date 10/11/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ethyl propiolate

Product Number : E46607 Brand : Aldrich

Product Use : For laboratory research purposes.

Supplier : Sigma-Aldrich Canada Co. Manufactur : Sigma-Aldrich Corporation

2149 Winston Park Drive er 3050 Spruce St.

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

CANADA USA

Telephone : +1 9058299500

Fax : +1 9058299292

Emergency Phone # (For

**Preparation Information** 

both supplier and

manufacturer)

Product Safety - Americas Region

: +1-703-527-3887 (CHEMTREC)

Sigma-Aldrich Corporation

1-800-521-8956

## 2. HAZARDS IDENTIFICATION

#### **Emergency Overview**

### Other hazards which do not result in classification

Lachrymator.

Pictogram

## **WHMIS Classification**

B2 Flammable liquid Flammable liquid

# **GHS Classification**

Flammable liquids (Category 3) Skin irritation (Category 2) Eye irritation (Category 2A)

Specific target organ toxicity - single exposure (Category 3)

# GHS Label elements, including precautionary statements

Signal word Warning

Hazard statement(s)

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

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: 0 Flammability: 3

Aldrich - E46607 Page 1 of 6

Physical hazards: 0

### **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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Ethyl acetylenecarboxylate

| CAS-No.          | EC-No.    | Index-No. | Concentration |
|------------------|-----------|-----------|---------------|
| Ethyl propiolate |           |           |               |
| 623-47-2         | 210-795-8 | -         | <=100%        |

### 4. FIRST AID MEASURES

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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

## 5. FIREFIGHTING MEASURES

### Conditions of flammability

Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

#### 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 firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## **Hazardous combustion products**

### Explosion data - sensitivity to mechanical impact

No data available

### Explosion data - sensitivity to static discharge

No data available

#### **Further information**

Use water spray to cool unopened containers.

#### **6. ACCIDENTAL RELEASE MEASURES**

Aldrich - E46607 Page 2 of 6

## Personal precautions

Use personal protective equipment. Avoid breathing vapours, 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 an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

## 7. HANDLING AND STORAGE

## Precautions for safe handling

Avoid contact with skin and eyes. 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

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.

Recommended storage temperature 2 - 8 °C

### 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

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 30 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### Eye protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin and body protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Hygiene measures

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

#### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

Aldrich - E46607 Page 3 of 6

### 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form clear, liquid Colour light yellow

Safety data

pH No data available
Melting No data available

point/freezing point

Boiling point 120 °C (248 °F) - lit.

Flash point 25 °C (77 °F) - closed cup

Ignition temperature No data available
Auto-ignition No data available

temperature

Lower explosion limit No data available
Upper explosion limit No data available
Vapour pressure No data available

Density 0.968 g/cm3 at 25 °C (77 °F)

Water solubility No data available Partition coefficient: No data available

n-octanol/water

Relative vapour

No data available

density

Odour No data available
Odour Threshold No data available
Evaporation rate No data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

Stable under recommended storage conditions.

## Possibility of hazardous reactions

Vapours may form explosive mixture with air.

#### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

Oxidizing agents, Bases, acids

### **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

#### Oral LD50

No data available

# Inhalation LC50

No data available

Aldrich - E46607 Page 4 of 6

### **Dermal LD50**

No data available

### Other information on acute toxicity

No data available

#### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

## Respiratory or skin sensitisation

No data available

# 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.

## Reproductive toxicity

No data available

## **Teratogenicity**

No data available

### Specific target organ toxicity - single exposure (Globally Harmonized System)

Inhalation - May cause respiratory irritation.

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

### **Aspiration hazard**

No data available

### Potential health effects

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

**Ingestion** May be harmful if swallowed.

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

**Eyes** May cause eye irritation.

## Signs and Symptoms of Exposure

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## Synergistic effects

No data available

#### **Additional Information**

RTECS: Not available

# 12. ECOLOGICAL INFORMATION

## **Toxicity**

No data available

#### Persistence and degradability

No data available

Aldrich - E46607 Page 5 of 6

## Bioaccumulative potential

No data available

### Mobility in soil

No data available

### PBT and vPvB assessment

No data available

#### Other adverse effects

No data available

### 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. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

### Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3272 Class: 3 Packing group: III

Proper shipping name: Esters, n.o.s.

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

UN number: 3272 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: ESTERS, N.O.S. (Ethyl propiolate)

Marine pollutant: No

**IATA** 

UN number: 3272 Class: 3 Packing group: III

Proper shipping name: Esters, n.o.s. (Ethyl propiolate)

### 15. REGULATORY INFORMATION

### **WHMIS Classification**

B2 Flammable liquid

Flammable liquid

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### **16. OTHER INFORMATION**

## Text of H-code(s) and R-phrase(s) mentioned in Section 3

## **Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. 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 Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

Aldrich - E46607 Page 6 of 6