

## Ethyl Acrylate

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**SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**


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<b>Trade name</b>	Ethyl Acrylate	
<b>Synonyms</b>	Acrylic acid ethyl ester; Ethoxycarbonyl ethylene	
<b>Use</b>	Industrial use, Intermediate, Paint and Coatings, Paper Chemical, Raw material for chemical processes, Raw material for industry	
<b>Company</b>	THE CHEMICAL SUPPLY	
<b>Address</b>	9595 Six Pines Dr., Ste8210, The woodlands, TX 77380	
<b>Telephone</b>	CHEMTREC North America Transportation Emergency (24-hr)	(800) 424-9300
	CHEMTREC World Wide	(703) 527-3887
	Other Emergencies (24-hr)	(337) 494-5142
	SDS and Product Information (8:00am-4:30pm CST)	(281) 588-3491
	Health and Safety Information (7:30am-4:00pm CST)	(281) 588-3492
<b>E-mail address</b>	info@thechemicalsupply.com	

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**SECTION 2 HAZARDS IDENTIFICATION**


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**GHS Hazards**

Flammable liquids	Category 2
Acute toxicity (Oral)	Category 4
Acute toxicity (Inhalation)	Category 3
Acute toxicity (Dermal)	Category 4
Carcinogenicity	Category 2
Eye irritation	Category 2A
Skin irritation	Category 2
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3 (Resp. irritation)
Chronic aquatic toxicity	Category 3

**LABEL ELEMENTS****Hazard symbols****Signal word** Danger

**Hazard statements** H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.

## Ethyl Acrylate

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- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

- Prevention**
- P201 Obtain special instructions before use.
  - P202 Do not handle until all safety precautions have been read and understood.
  - P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
  - P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
  - P242 Use only non-sparking tools.
  - P243 Take precautionary measures against static discharge.
  - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
  - P233 Keep container tightly closed.
  - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
  - P264 Wash skin thoroughly after handling.
  - P273 Avoid release to the environment.
- Response**
- P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
  - P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
  - P330 Rinse mouth.
  - P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
  - P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
  - 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.
  - P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - P311 Call a POISON CENTER /doctor.
  - P308 + P313 IF exposed or concerned: Get medical advice/ attention.
- Storage**
- P403 + P405 + P235 Store locked up in a well-ventilated place. Keep cool.
- Disposal**
- P501 Dispose of contents/ container to an approved waste disposal plant.
- Additional advice** Possible/probable human carcinogen

## Ethyl Acrylate

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### SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
Ethyl Acrylate	140-88-5	100

See Section 8 for Exposure Guidelines and Section 15 for Regulatory Classifications.

### SECTION 4 FIRST AID MEASURES

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- Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention immediately.
- Inhalation** Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
- Ingestion** If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

### SECTION 5 FIREFIGHTING MEASURES

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#### FLAMMABLE PROPERTIES

**Fire/explosion** NFPA Class 1B flammable liquid. Vapours may form explosive mixtures with air. Flash back possible over considerable distance. Use water spray to disperse the vapors.

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Protective equipment and precautions for firefighters** Wear self-contained breathing apparatus and protective suit.

**Further information** Keep containers and surroundings cool with water spray. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Methods and materials for containment and cleaning up** Evacuate personnel to safe areas. Remove all sources of ignition. 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). Do not flush into surface water or sanitary sewer system.

**Spill precautions** Do not flush into surface water or sanitary sewer system.

## Ethyl Acrylate

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### SECTION 7 HANDLING AND STORAGE

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<b>Safe handling advice</b>	Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.
<b>Storage/Transport pressure</b>	Ambient
<b>Load/Unload temperature</b>	Ambient

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### ENGINEERING MEASURES

Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment.

#### PERSONAL PROTECTIVE EQUIPMENT

**Eyes** Chemical resistant goggles must be worn., Face-shield

**Skin** Wear suitable protective clothing and gloves.

**Inhalation** Always wear a self-contained breathing apparatus or full-face airline respirator when using this chemical.

#### EXPOSURE GUIDELINES

Components	Exposure limit(s)
<b>Ethyl Acrylate</b>	OSHA PEL 25 ppm 100 mg/m <sup>3</sup> ACGIH TLV (8-hour) 5 ppm ACGIH STEL 15 ppm

PEL= Permissible Exposure Limits  
TLV= Threshold Limit Value  
EL= Excursion Limit

TWA= Time Weighted Average (8 hr.)  
STEL= Short Term Exposure Limit (15 min.)  
WEEL= Workplace Environmental Exposure Level

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance** liquid;

**Colour** Clear, colorless

**Form** liquid

**Odour** unpleasant

**Odour Threshold** no data available

**Flash point** 9 °C, 48 °F;

## Ethyl Acrylate

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<b>Flammability</b>	Upper explosion limit: 13 %(V) Lower explosion limit: 1.7 %(V)
<b>Boiling point/boiling range</b>	99.8 °C, 211.6 °F;
<b>Melting point/range</b>	-71.2 °C, -96.2 °F;
<b>Auto-ignition temperature</b>	372 °C, 702 °F;
<b>Decomposition temperature</b>	no data available
<b>Flammability (solid, gas)</b>	no data available
<b>Vapour pressure</b>	40 hPa @ 21 °C, 70 °F;
<b>Vapour density</b>	no data available
<b>Density</b>	0.92 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Specific gravity</b>	no data available
<b>Water solubility</b>	slightly soluble
<b>Viscosity</b>	no data available
<b>Viscosity, dynamic</b>	0.54 mPa.s @ 25 °C, 77 °F;
<b>pH</b>	no data available
<b>Evaporation rate</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	log Pow: 1.18; @ 25 °C, 77 °F;

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## SECTION 10 STABILITY AND REACTIVITY

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<b>Reactivity</b>	The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.
<b>Chemical stability</b>	Ensure good distribution of the inhibitor and dissolved oxygen. Please take note of the product's maximum storage period.
<b>Conditions to avoid</b>	Avoid temperatures above 35°C, direct sunlight and contact with sources of heat. Avoid radical-forming starting agents, peroxides and reactive metals. Protect from contamination.

## Ethyl Acrylate

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**Hazardous decomposition products** No decomposition if stored normally. Prolonged storage of the product can cause the stabiliser to lose its effectiveness.

**Materials to avoid** Oxidizing agents  
Heavy metal salts  
Acids and bases  
Acid anhydrides  
polymerisation initiators

**Hazardous polymerisation** Hazardous polymerization may occur upon depletion of inhibitor - may cause heat and pressure build-up in closed containers.

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### SECTION 11 TOXICOLOGICAL INFORMATION

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**Acute dermal toxicity** LD50 Rabbit: > 1,000 - 2,000 mg/kg(literature value)

**Acute inhalation toxicity** LC50 Rat (4 hours): > 2 - 10 mg/l; OECD Test Guideline 403 (literature value)

**Acute oral toxicity** LD50 Rat: > 300 - 2,000 mg/kg (literature value)

**Skin corrosion/irritation** (Rabbit): OECD Test Guideline 404 irritating, (literature value)

**Eye damage/irritation** (Rabbit) irritating, (literature value)

**Respiratory or skin sensitization** human skin: Causes sensitisation; Maximisation Test (literature value)

**Germ cell mutagenicity** **Genotoxicity in vitro:**  
Type: Ames test  
System: Salmonella typhimurium; with and without metabolic activation  
Result: In vitro tests did not show mutagenic effects (literature value)

**Genotoxicity in vivo:**  
no data available

**Assessment Mutagenicity:**  
Based on available data, the classification criteria are not met.

**Reproductive toxicity** **Reproductive toxicity:**  
no data available

**Assessment Reproductive toxicity:**  
no data available

**Teratogenicity:**  
no data available

## Ethyl Acrylate

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**Assessment teratogenicity:**

no data available

**STOT - single exposure**

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

no data available

**Aspiration toxicity**

no data available

**Carcinogenicity**
**Assessment carcinogenicity:**

Suspected of causing cancer.

**Carcinogenicity ratings**

Ethyl Acrylate

**IARC**

Possible human carcinogen

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**SECTION 12 ECOLOGICAL INFORMATION**


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**Aquatic toxicity**

Harmful to aquatic life with long lasting effects.

**Toxicity to fish**

LC50 (Cyprinodon variegatus (sheepshead minnow)): &gt; 1 - 10 mg/l; flow-through test; OECD Test Guideline 203 (literature value)

**Toxicity to aquatic invertebrates**

EC50 (Daphnia magna (Water flea)) 48 hours: &gt; 1 - 10 mg/l (literature value)

**Toxicity to algae**

EC50 (Pseudokirchneriella subcapitata (green algae)) 72 hours: &gt; 1 - 10 mg/l (literature value)

**Chronic toxicity to aquatic invertebrates**

NOEC (Daphnia magna (Water flea)) 21 d: &gt; 0.1 - 1 mg/l; semi-static test; OECD Test Guideline 211 (literature value)

**Biodegradation**

Readily biodegradable

OECD Test Guideline 310 (28 d): &gt; 60 % (literature value)

**Bioaccumulation**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).;

## Ethyl Acrylate

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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- Waste Code** U113.D001 - Ignitability (RQ 100 LB). Re-evaluation of the product may be required by the user at the time of disposal, since the product uses, transformations, mixtures, contamination, and spillage may change the classification.
- Disposal methods** Dispose of only in accordance with local, state, and federal regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.
- Empty containers.** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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**SECTION 14 TRANSPORT INFORMATION**

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- DOT** UN 1917, Ethyl acrylate, stabilized, 3, II  
When shipped in quantities greater than 1,000 lbs, RQ must be added to the shipping description.
- IATA** UN 1917, Ethyl acrylate, stabilized, 3, II  
When shipped in quantities greater than 1,000 lbs, RQ must be added to the shipping description.
- IMDG** UN 1917, Ethyl acrylate, stabilized, 3, II  
When shipped in quantities greater than 1,000 lbs, RQ must be added to the shipping description.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

**Remarks** no data available

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**SECTION 15 REGULATORY INFORMATION**

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**U.S. FEDERAL REGULATIONS****OSHA Hazards (HCS 1994)**

Flammable liquid, Irritant, Sensitiser

**TSCA Inventory Listing****Components**

2-Propenoic acid, ethyl ester

**CAS-No.**

140-88-5

**SARA 302 Status****Components****CAS-No.****Weight percent**

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

**SARA 311/312 Classification**

"Fire hazard", "Immediate (acute) health hazard", "Delayed (chronic) health hazard"



## Ethyl Acrylate

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### SARA 313 Chemical

#### Components

2-Propenoic acid, ethyl ester

#### CAS-No.

140-88-5

#### Weight percent

100 %

### US. EPA CERCLA Hazardous Substances (40 CFR 302)

#### Components

2-Propenoic acid, ethyl ester

#### Reportable Quantity

1,000 LB

#### Weight percent

100 %

## INTERNATIONAL REGULATIONS

### WHMIS Classification

Class B, Division 2: Flammable liquid.

Class D, Division 2, Subdivision A: Very toxic material

Class D, Division 2, Subdivision B: Toxic material.

### European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 2

Acute toxicity (Dermal), Category 4

Acute toxicity (Inhalation), Category 3

Acute toxicity (Oral), Category 4

Carcinogenicity, Category 2

Skin irritation, Category 2

Eye irritation, Category 2

Skin sensitisation, Category 1

Specific target organ toxicity - single exposure, Category 3 (Resp. irritation)

Chronic aquatic toxicity, Category 3

<b>Australia. Inventory of Chemical Substances (AICS)</b>	Listed
<b>Japan. Inventory of Existing and New Chemical Substances (ENCS)</b>	Listed
<b>Japan. Industrial Safety &amp; Health Law (ISHL) Inventory</b>	Listed
<b>Canada. Domestic Substances List (DSL) Inventory</b>	Listed
<b>Canadian Non-Domestic Substance Listing (NDSL)</b>	Not listed
<b>European Inventory of Existing Commercial Chemical Substances (EINECS) Listing</b>	Listed
<b>Philippines. Inventory of Chemicals / Chemical Substances (PICCS)</b>	Listed
<b>Korea. Existing Chemicals Inventory (KECI)</b>	Listed
<b>China. Inventory of Existing Chemical Substances (IECSC)</b>	Listed
<b>Mexico. National Inventory of Chemical Substances (INSQ)</b>	Listed
<b>New Zealand. Inventory of Chemicals (NZIoC)</b>	Listed

## Ethyl Acrylate

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Switzerland. Inventory of Notified New Substances (CHINV) Listed

Taiwan. National Existing Chemical Inventory (NECI) Listed

Please note: The names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in Section 3.

### STATE REGULATIONS

California Prop. 65

Components

2-Propenoic acid, ethyl ester

CAS-No.

140-88-5

### **SECTION 16 OTHER INFORMATION**

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#### HAZARD RATINGS

	<u>Health</u>	<u>Flammability</u>	<u>Physical Hazard/ Instability</u>
<b>HMIS®</b>	2	3	2
<b>NFPA</b>	2	3	2

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