



# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

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

**Product identifier**

**Trade name** Ethyl Acrylate

**Synonyms** Acrylic acid ethyl ester, Ethoxy carbonyl ethylene; Ethyl-2 propenoate

**Product code** 5012

**CAS-No.** 140-88-5

**Relevant identified uses of the substance or mixture and uses advised against**

**Use** Industrial use.

**Manufacturer or supplier's details**

**Company** Sasol Chemicals, a division of Sasol South Africa Ltd

**Address** Sasol Place, 50 Katherine Street  
Sandton  
2090  
South Africa

**Telephone** +27103445000

**E-mail address** sasolchem.info.sa@sasol.com

**Supplier's details** Sasol Chemicals Pacific Ltd

2 Shenton way #06-01

SGX Centre 1

068804

Singapore

**Telephone** +65 6533 8856

**E-mail address** info.sg@sasol.com



# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

### Emergency Phone Number

#### Emergency telephone number

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 400 120 6011 (China)

+27 (0)17 610 4444 (South Africa)

0800 112 890 RSA-Local only

+61 (2) 8014 4558 (Australia)

## SECTION 2. Hazards identification

### Classification of the substance or mixture

#### GHS Classification

**SS 586 : Part 2: Specification for Hazard Communication for Hazardous Chemicals and Dangerous Goods, Part 2 : Globally harmonized system of classification and labelling of chemicals - Singapore's adaptations**

#### Classification

Flammable liquids	Category 2
Acute oral toxicity	Category 4
Acute inhalation toxicity	Category 4
Acute dermal toxicity	Category 4
Skin corrosion/irritation	Category 2

Print Date 10.10.2022

100000003184

2/17

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

Serious eye damage/eye irritation	Category 2
Skin sensitisation	Category 1
Specific target organ toxicity - single exposure	Category 3

### GHS label elements

Hazard pictograms



Signal word

:

Danger

Hazard statements

:

H225 Highly flammable liquid and vapour.  
 H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H335 May cause respiratory irritation.

Precautionary statements

:

**Prevention:**  
 P210 Keep away from heat/ sparks/ open flames/ hot surfaces.  
 No smoking.  
 P280 Wear protective gloves/ eye protection/ face protection.  
 P233 Keep container tightly closed.  
 P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
 P264 Wash the contact area thoroughly after handling.  
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
 P240 Ground and bond container and receiving equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

### Response:

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P332 + P317 If skin irritation 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.

P304 + P340 + P317 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.

P301 + P317 + P330 IF SWALLOWED: Get medical help. Rinse mouth.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P333 + P317 If skin irritation or rash occurs: Get medical advice/ attention.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.



# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

### Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

### SECTION 3. Composition/information on ingredients

#### HAZARDOUS INGREDIENTS

##### Ethyl Acrylate

Contents: 100.00 %W/W

CAS-No. 140-88-5

Index-No. 607-032-00-X

EC-No. 205-438-8

**Hazard statements** *H225 H302 H312 H332 H315 H319 H317  
H335*

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4. First aid measures

#### Description of necessary first-aid measures

<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. If skin irritation persists, call a physician.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
<b>Ingestion</b>	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

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

person.

### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

## SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Alcohol-resistant foam. Dry chemical. Carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do NOT use water jet.
<b>Special hazards arising from the substance or mixture</b>	Flash back possible over considerable distance. Evacuate area. Increased temperature causes runaway reaction due to uncontrolled polymerization leading to explosion.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## SECTION 6. Accidental release measures

<b>Personal precautions</b>	Keep people away from and upwind of spill/leak. Remove all sources of ignition. Do not breathe vapours or spray mist. Material can create slippery conditions.
<b>Environmental precautions</b>	Should not be released into the environment. Prevent further

## Safety Data Sheet

### Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material and dispose of as hazardous waste.

**Reference to other sections** Refer to Section 8 and 13

## SECTION 7. Handling and storage

**Safe handling advice** Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from sources of ignition - No smoking.

**Advice on protection against fire and explosion** Use explosion-proof equipment. Take precautionary measures against static discharges. Do not allow to enter drains (danger of explosion). Explosion protection equipment required. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat and sources of ignition. Vapours may form explosive mixtures with air. Keep away from sources of ignition - No smoking.

**Requirements for storage areas and containers** The stabiliser is only effective in the presence of oxygen.  
Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat.

**Advice on common storage** Keep in a cool, well-ventilated place.

## SECTION 8. Exposure controls/personal protection

Components with workplace control parameters

**NATIONAL OCCUPATIONAL EXPOSURE LIMITS**





# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

Components	Type	Control parameters	Update	Basis
ETHYL ACRYLATE	TWA	20 mg/m <sup>3</sup>	2006	Singapore PELs
ETHYL ACRYLATE	TWA	5 ppm	2006	Singapore PELs
	STEL	61 mg/m <sup>3</sup>	2006	Singapore PELs
	STEL	15 ppm	2006	Singapore PELs

### Exposure controls

#### Engineering measures

Provide sufficient air exchange and/or exhaust in work rooms.

#### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Gloves suitable for permanent contact:

Material: butyl-rubber

Break through time: 4 h

Material thickness: 0.5 mm

**Eye protection** Safety glasses with side-shields.

**Skin and body protection** Protective suit. Safety shoes.

**Hygiene measures** Wash hands before breaks and immediately after handling the product.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

Print Date 10.10.2022

100000003184

9/17

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 ° C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	Pungent
<b>Odour Threshold</b>	No data available.
<b>pH</b>	Not applicable.
<b>Melting point/range</b>	< -75 ° C
<b>Boiling point/boiling range</b>	100 ° C; ASTM D86
<b>Flash point</b>	9 ° C; ASTM D 93 - 85; closed cup;
<b>Evaporation rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available.
<b>Auto-ignition temperature</b>	No data available.
<b>Decomposition Temperature</b>	No data available.
<b>Lower explosion limit</b>	1.7 %(V)
<b>Upper explosion limit</b>	13 %(V)
<b>Vapour pressure</b>	39.1 hPa; 20 ° C
<b>Relative vapour density</b>	3.45(Air = 1.0)
<b>Density</b>	0.921 g/cm <sup>3</sup> ; 20 ° C; ASTM D4052
<b>Water solubility</b>	Partly soluble
<b>Partition coefficient: n-octanol/water</b>	No data available.

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

**Viscosity, kinematic** 0.62 mm<sup>2</sup>/s; 20 ° C; ASTM D 445

### SECTION 10. Stability and reactivity

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Polymerises with risk of fire and explosion. Polymerisation occurs when exposed to white light, ultraviolet light or heat. Hazardous polymerization may occur upon depletion of inhibitor - may cause heat and pressure build-up in closed containers. Self-accelerating polymerization temperature (SAPT) for stabilized Sasol Ethyl Acrylate was determined at Kinetica Laboratories in the USA for various package sizes (drum, isotainer and 1000 and 3000 m <sup>3</sup> tanks) and found to be >50°C for all package sizes. Therefore Sasol Ethyl Acrylate can be shipped at ambient temperature.
<b>Conditions to avoid</b>	Heat, flames and sparks. Keep away from combustible material.
<b>Materials to avoid</b>	Reducing agents. Oxidizing agents. Amines. Azo-compounds. Caustic alkali solutions. Peroxides. Ketones. Acetic anhydride. Mineral acids. Aldehydes. Thiols. Potassium hydroxide. Sodium hydroxide. Inorganic halides. Ethers containing peroxides. Conjugated polyunsaturated acids and esters. Nitrogen. Inert Gas
<b>Hazardous decomposition products</b>	Stable under recommended storage conditions.

## Safety Data Sheet

### Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

#### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Ethyl Acrylate: LD50 Rat: 300 - 2,000 mg/kg; (literature value)
<b>Acute inhalation toxicity</b>	Ethyl Acrylate: LC50 Rat: 4 h; vapour; 2 - 10 mg/l; OECD Test Guideline 403; The component/mixture is toxic after short term inhalation.; (literature value)
<b>Acute dermal toxicity</b>	Ethyl Acrylate: LDLo Rat: 1,000 - 2,000 mg/kg; (literature value)
<b>Acute dermal toxicity</b>	Ethyl Acrylate: LD50 Rabbit: 1,000 - 2,000 mg/kg; (literature value)
<b>Skin irritation</b>	Ethyl Acrylate: Rabbit: Irritating; OECD Test Guideline 404 (literature value)
<b>Eye irritation</b>	Ethyl Acrylate: Rabbit: Irritating (literature value)
<b>Sensitisation</b>	Ethyl Acrylate: Maximisation Test; Humans: Sensitizing; (literature value)
<b>Mutagenicity</b>	Ethyl Acrylate: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)

#### SECTION 12. Ecological information

## Safety Data Sheet

### Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

<b>Toxicity to fish</b>	Ethyl Acrylate: flow-through test; Cyprinodon variegatus; 96 h; LC50; 1 - 10 mg/l; OECD Test Guideline 203; GLP: yes; (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Ethyl Acrylate: Daphnia magna (Water flea); 48 h; EC50; 1 - 10 mg/l(literature value)
<b>Toxicity to algae</b>	Ethyl Acrylate: 96 h; ErC50; > 1 mg/l; OECD Test Guideline 201; (literature value)
<b>Biodegradability</b>	Ethyl Acrylate: aerobic; Activated sludge, domestic, non-adapted; 100 mg/l; > 60 %; 28 d; Readily biodegradable.; OECD Test Guideline 310; (literature value)
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB assessment</b>	This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

## SECTION 13. Disposal considerations

<b>Product</b>	In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. The product should not be allowed to enter drains, water courses or the soil.
<b>Packaging</b>	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

environment.

### SECTION 14. Transport information

#### DG Pictogram



#### ADR

UN number: 1917

Class: 3

Packaging group: II; F1;

Proper shipping name: ETHYL ACRYLATE, STABILIZED

#### ADNR

UN number: 1917

Class: 3

Packaging group: II; F1

Proper shipping name: ETHYL ACRYLATE, STABILIZED

#### IMDG

UN number: 1917

Class: 3

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

<b>EmS:</b>	F-E, S-D
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	ETHYL ACRYLATE, STABILIZED
<b>Marine pollutant</b>	Not a Marine Pollutant
<b>ICAO/IATA</b>	
<b>UN number :</b>	1917
<b>Class:</b>	3
<b>Packaging group:</b>	II
<b>Proper shipping name:</b>	ETHYL ACRYLATE, STABILISED
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Ethyl Acrylate POLLUTION CATEGORY: Y Ship Type: 2

### SECTION 15. Regulatory information

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

##### USA TSCA Inventory

All chemical constituents are listed in: USA TSCA Inventory  
(See chapter 3)

##### Canadian Domestic Substances List (DSL)

All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)

# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

<b>Australian Inv. of Chem. Substances (AICS)</b>	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
<b>New Zealand Inventory of Chemicals (NZIoC)</b>	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
<b>Jap. Inv. of Exist. &amp; New Chemicals (ENCS)</b>	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
<b>Japan. Industrial Safety &amp; Health Law (ISHL)</b>	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
<b>Korea. Existing Chemicals Inventory (KECI)</b>	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
<b>Philippines Inventory of Chemicals and Chemical Substances (PICCS)</b>	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
<b>China Inv. Existing Chemical Substances (IECSC)</b>	All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

### SECTION 16. Other information

#### Full text of H-Statements

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.

Print Date 10.10.2022

100000003184

16/17





# Safety Data Sheet

## Ethyl Acrylate

Version 1.02

Revision Date 10.10.2022

H335 May cause respiratory irritation.

All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

Although all reasonable efforts were exercised in the compilation of this SDS, Sasol does not expressly warrant the accuracy of, or assume any liability for incomplete information contained herein or any advice given. When this product is sold, risk passes to the purchaser in accordance with the specific terms and conditions of sale.