

Safety Data Sheet

Ethyl Acrylate

Version 1.05

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

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0800 112 890 RSA-Local only

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SECTION 2. Hazards identification

Classification of the substance or mixture

GHS Classification

Standards for classification and labeling of chemical substances and material safety data sheet (ministry of employment and labor public notice No. 2016-19) (GHS 2011)

Classification	Flammable liquids	Category 2
	Acute oral toxicity	Category 4
	Acute inhalation toxicity	Category 3
	Skin irritation	Category 2
	Eye irritation	Category 2
	Skin sensitisation	Category 1
	Specific target organ toxicity - single exposure	Category 3
	Long-term (chronic) aquatic hazard	Category 2

GHS label elements

Hazard pictograms



Signal word

:

Danger

Hazard statements

:

H225 Highly flammable liquid and vapour.

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H302 Harmful if swallowed.
H331 Toxic if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P210 Keep away from heat/ sparks/ open flames/ hot surfaces.
No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P264 Wash the contact area thoroughly after handling.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P333 + P317 If skin irritation or rash occurs: Get medical

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advice/ attention.

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

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

P302 + P352 IF ON SKIN: Wash with plenty of water.

P337 + P317 If eye irritation persists: 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.

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

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

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.

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.



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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.

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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 H331 H315 H319 H317 H335
H411*

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

Inhalation	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.
Skin contact	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.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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

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person.

Most important symptoms/effects, acute and delayed

Refer to SECTION 11

SECTION 5. Firefighting measures

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

SECTION 6. Accidental release measures

Personal precautions	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.
Environmental precautions	Should not be released into the environment. Prevent further

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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

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Components	Type	Control parameters	Update	Basis
ETHYL ACRYLATE	TWA	20 mg/m ³	08 2012	Korea OELs
	TWA	5 ppm	08 2012	Korea OELs

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

Form Liquid

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State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Colourless
Odour	Pungent
Odour Threshold	No data available.
pH	Not applicable.
Melting point/range	< -75 ° C
Boiling point/boiling range	100 ° C; ASTM D86
Flash point	9 ° C; ASTM D 93 - 85; closed cup;
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Auto-ignition temperature	No data available.
Decomposition Temperature	No data available.
Lower explosion limit	1.7 %(V)
Upper explosion limit	13 %(V)
Vapour pressure	39.1 hPa; 20 ° C
Relative vapour density	3.45(Air = 1.0)
Density	0.921 g/cm ³ ; 20 ° C; ASTM D4052
Water solubility	Partly soluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	0.62 mm ² /s; 20 ° C; ASTM D 445

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SECTION 10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	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 m3 tanks) and found to be >50°C for all package sizes. Therefore Sasol Ethyl Acrylate can be shipped at ambient temperature.
Conditions to avoid	Heat, flames and sparks. Keep away from combustible material.
Materials to avoid	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
Hazardous decomposition products	Stable under recommended storage conditions.

SECTION 11. Toxicological information



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Acute oral toxicity	Ethyl Acrylate: LD50 Rat: 300 - 2,000 mg/kg; (literature value)
Acute oral toxicity	Ethyl Acrylate: Acute toxicity estimate : 500 mg/kg; Converted acute toxicity point estimate;
Acute inhalation toxicity	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)
Acute dermal toxicity	Ethyl Acrylate: LDLo Rat: 1,000 - 2,000 mg/kg; (literature value)
Acute dermal toxicity	Ethyl Acrylate: LD50 Rabbit: 1,000 - 2,000 mg/kg; (literature value)
Acute dermal toxicity	Ethyl Acrylate: Acute toxicity estimate : 1,100 mg/kg; Converted acute toxicity point estimate;
Skin irritation	Ethyl Acrylate: Rabbit: Irritating; OECD Test Guideline 404 (literature value)
Eye irritation	Ethyl Acrylate: Rabbit: Irritating (literature value)
Sensitisation	Ethyl Acrylate: Maximisation Test; Humans: Sensitizing; (literature value)
Mutagenicity	Ethyl Acrylate: Ames test: Salmonella typhimurium; Not mutagenic; (literature value)

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SECTION 12. Ecological information

Toxicity to fish	Ethyl Acrylate: flow-through test; Cyprinodon variegatus; 96 h; LC50; 1 - 10 mg/l; OECD Test Guideline 203; GLP: yes; (literature value)
Toxicity to daphnia and other aquatic invertebrates	Ethyl Acrylate: Daphnia magna (Water flea); 48 h; EC50; 1 - 10 mg/l(literature value)
Toxicity to algae	Ethyl Acrylate: 96 h; ErC50; > 1 mg/l; OECD Test Guideline 201; (literature value)
Biodegradability	Ethyl Acrylate: aerobic; Activated sludge, domestic, non-adapted; 100 mg/l; > 60 %; 28 d; Readily biodegradable.; OECD Test Guideline 310; (literature value)
Mobility in soil	No data available.
Results of PBT and vPvB assessment	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

Product	In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or
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Packaging

used container. The product should not be allowed to enter drains, water courses or the soil.

Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

DG Pictogram



ADR

UN number: 1917

Class: 3

Packaging group: II; F1;

Proper shipping name: ETHYL ACRYLATE, STABILIZED

RID

UN number: 1917

Class: 3

Packaging group: II; F1

Proper shipping name: ETHYL ACRYLATE, STABILIZED

ADNR

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UN number: 1917
Class: 3
Packaging group: II; F1
Proper shipping name: ETHYL ACRYLATE, STABILIZED

IMDG

UN number: 1917
Class: 3
EmS: F-E, S-D
Packaging group: II
Proper shipping name: ETHYL ACRYLATE, STABILIZED
Marine pollutant Not a Marine Pollutant

ICAO/IATA

UN number : 1917
Class: 3
Packaging group: II
Proper shipping name: ETHYL ACRYLATE, STABILISED
Transport in bulk according to Annex II of MARPOL Ethyl Acrylate
POLLUTION CATEGORY: Y



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73/78 and the IBC Code 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)
Australian Inv. of Chem. Substances (AICS)	All chemical constituents are listed in: Australian Inv. of Chem. Substances (AICS) (See chapter 3)
New Zealand Inventory of Chemicals (NZIoC)	All chemical constituents are listed in: New Zealand Inventory of Chemicals (NZIoC) (See chapter 3)
Jap. Inv. of Exist. & New Chemicals (ENCS)	All chemical constituents are listed in: Jap. Inv. of Exist. & New Chemicals (ENCS) (See chapter 3)
Japan. Industrial Safety & Health Law (ISHL)	All chemical constituents are listed in: Japan. Industrial Safety & Health Law (ISHL) (See chapter 3)
Korea. Existing Chemicals Inventory (KECI)	All chemical constituents are listed in: Korea. Existing Chemicals Inventory (KECI) (See chapter 3)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	All chemical constituents are listed in: Philippines Inventory of Chemicals and Chemical Substances (PICCS) (See chapter 3)
China Inv. Existing Chemical Substances	All chemical constituents are listed in: China Inv. Existing



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(IECSC)

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.
- 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.
- H411 Toxic to aquatic life with long lasting effects.

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.



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