



# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

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

**Product identifier**

**Trade name** Glacial Acrylic Acid

**Synonyms** Acrylic acid (Glacial), Acroleic acid, 2-Propenoic acid, Ethylenecarboxylic acid.

**Product code** 5011

**CAS-No.** 79-10-7

**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

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### 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

#### Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

<b>Classification</b>	Flammable liquids	Category 3
	Acute oral toxicity	Category 4
	Acute dermal toxicity	Category 4
	Acute inhalation toxicity	Category 4
	Skin corrosion/irritation	Category 1A
	Short-term (acute) aquatic hazard	Category 1

#### GHS label elements

Print Date 11.10.2022

100000003152

2/16

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

Hazard pictograms



Signal word

: Danger

Hazard statements

: H226 Flammable liquid and vapour.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H314 Causes severe skin burns and eye damage.  
H400 Very toxic to aquatic life.

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.  
P280 Wear protective gloves/ eye protection/ face protection.  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P270 Do not eat, drink or smoke when using this product.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.



# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P354 + P338 + P317 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help.

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

### 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.

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### SECTION 3. Composition/information on ingredients

#### HAZARDOUS INGREDIENTS

Acrylic Acid; prop-2-enoic acid

Contents: 100.00 %W/W

CAS-No. 79-10-7

Index-No. 607-061-00-8

EC-No. 201-177-9

Hazard statements *H226 H332 H312 H302 H314 H400*

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. Monitor breathing, get medical attention immediately.
<b>Skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. Call a physician immediately.
<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Protect unharmed eye.
<b>Ingestion</b>	If swallowed, seek medical advice immediately and show this container or label. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.



**SASOL**

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

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

Refer to SECTION 11

## SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Dry sand. Dry chemical. Alcohol-resistant foam.
<b>Special hazards arising from the substance or mixture</b>	Do not allow run-off from fire fighting to enter drains or water courses.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

## SECTION 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment. Do not breathe vapours or spray mist. Use non-sparking tools.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
<b>Reference to other sections</b>	Refer to Section 8 and 13

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### 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** Keep containers tightly closed in a dry, cool and well-ventilated place. The stabiliser is only effective in the presence of oxygen. Keep away from heat.
- Advice on common storage** No data available.

### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

#### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
ASAM AKRILAT	TWA	5.9 mg/m <sup>3</sup>	11 2011	Indonesia OELs Hazard Data
ASAM AKRILAT	TWA	2 ppm	11 2011	Indonesia OELs Hazard Data

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### Exposure controls

#### Engineering measures

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

#### Personal protective equipment

**Respiratory protection**      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**                Face-shield

**Skin and body protection**    Flame retardant protective clothing Chemical resistant safety boots.

**Hygiene measures**            Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9. Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>State of matter</b>	Liquid; at 20 ° C; 1,013 hPa
<b>Colour</b>	Colourless
<b>Odour</b>	Strong





**SASOL**

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

<b>Odour Threshold</b>	No data available.
<b>Melting point/range</b>	12 ° C
<b>Boiling point/boiling range</b>	141 ° C
<b>Flash point</b>	53.5 ° C; closed cup
<b>Evaporation rate</b>	No data available.
<b>Flammability (solid, gas)</b>	No data available.
<b>Auto-ignition temperature</b>	438 ° C
<b>Decomposition Temperature</b>	No data available.
<b>Lower explosion limit</b>	2.4 %(V)
<b>Upper explosion limit</b>	19.8 %(V)
<b>Relative vapour density</b>	No data available.
<b>Density</b>	1.05 g/cm <sup>3</sup> ; 20 ° C
<b>Water solubility</b>	Completely soluble, Completely miscible
<b>Viscosity, kinematic</b>	1.236 mm <sup>2</sup> /s; 20 ° C

### 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>	Polymerisation occurs when exposed to white light, ultraviolet light or heat. Polymerises with risk of fire and explosion. Hazardous polymerization may occur upon depletion of inhibitor

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

- may cause heat and pressure build-up in closed containers.  
 Self-Accelerating Polymerisation Temperature (SAPT) for stabilized Sasol Glacial Acrylic Acid 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 packages sizes. Therefore Sasol Glacial Acrylic Acid can be shipped at ambient temperature.

**Conditions to avoid**

Heat, flames and sparks.

**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**

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### SECTION 11. Toxicological information

**Acute oral toxicity**

Acrylic Acid; prop-2-enoic acid:  
 LD0 Rat: > 2,000 mg/kg; (literature value)

**Acute inhalation toxicity**

Acrylic Acid; prop-2-enoic acid:  
 LC50 Rat: vapour; 1,200 mg/l;

**Acute dermal toxicity**

Acrylic Acid; prop-2-enoic acid:  
 LD50 Rabbit: 280 mg/kg; (literature value)

**Skin irritation**

Acrylic Acid; prop-2-enoic acid:

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

	Rabbit: Severe skin irritation; (literature value)
<b>Eye irritation</b>	Acrylic Acid; prop-2-enoic acid: Rabbit: Highly irritating
<b>Mutagenicity</b>	Acrylic Acid; prop-2-enoic acid: Ames test: Salmonella typhimurium; with and without; mutagenic; (literature value)

### SECTION 12. Ecological information

<b>Toxicity to fish</b>	Acrylic Acid; prop-2-enoic acid: Leuciscus idus melanotus; 48 h; 315 mg/l; (literature value)
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Acrylic Acid; prop-2-enoic acid: Daphnia magna; 24 h; EC50; 765 mg/l(literature value)
<b>Toxicity to algae</b>	Acrylic Acid; prop-2-enoic acid: Desmodesmus subspicatus (green algae)72 h; EC50; 1 mg/l; (literature value);
<b>Biodegradability</b>	Acrylic Acid; prop-2-enoic acid: aerobic; > 60 %; 28 d; (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).

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### 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 environment.

### SECTION 14. Transport information

DG Pictogram



ADR

<b>UN number:</b>	2218
<b>Class:</b>	8, (3)
<b>Packaging group:</b>	II; CF1;
<b>Proper shipping name:</b>	ACRYLIC ACID, STABILIZED

RID

<b>UN number:</b>	2218
<b>Class:</b>	8, (3)

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

**Packaging group:** II; CF1

**Proper shipping name:** ACRYLIC ACID, STABILIZED

### ADNR

**UN number:** 2218

**Class:** 8, (3)

**Packaging group:** II; CF1

**Proper shipping name:** ACRYLIC ACID, STABILIZED

### IMDG

**UN number:** 2218

**Class:** 8, (3)

**EmS:** F-E, S-C; IMDG Page: 1

**Packaging group:** II; Marine pollutant

**Proper shipping name:** ACRYLIC ACID, STABILIZED

**Marine pollutant** Marine pollutant

### ICAO/IATA

**UN number :** 2218

**Class:** 8, (3)

**Packaging group:** II

**Proper shipping name:** ACRYLIC ACID, STABILISED

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Acrylic acid  
POLLUTION CATEGORY: Y  
Ship Type: 2

### SECTION 15. Regulatory information

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

<b>USA TSCA Inventory</b>	All chemical constituents are listed in: USA TSCA Inventory (See chapter 3)
<b>Canadian Domestic Substances List (DSL)</b>	All chemical constituents are listed in: Canadian Domestic Substances List (DSL) (See chapter 3)
<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)

# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022

### 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 (IECSC)

All chemical constituents are listed in: China Inv. Existing Chemical Substances (IECSC) (See chapter 3)

## SECTION 16. Other information

### Full text of H-Statements

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.

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.



# Safety Data Sheet

## Glacial Acrylic Acid

Version 1.01

Revision Date 11.10.2022