

## Butyl Acrylate

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

<b>Trade name</b>	Butyl Acrylate	
<b>Synonyms</b>	2-Propenoic acid butyl ester, Acrylic acid n-butyl ester, Butyl 2-propenoate	
<b>Use</b>	Industrial use, Intermediate, Paint and Coatings, Paper Chemical, Raw material for chemical processes, Raw material for industry	
<b>Company</b>	Sasol Chemicals (USA) LLC (an affiliate of Sasol Chemicals North America LLC)	
<b>Address</b>	12120 Wickchester Lane Houston TX 77079	
<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>	SasolElectronicSDS@us.sasol.com	

### SECTION 2 HAZARDS IDENTIFICATION

<b>OSHA/GHS Hazards</b>	Flammable liquids	Category 3
	Acute toxicity (Inhalation)	Category 4
	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** Warning

**Hazard statements**

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

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- H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H412 Harmful 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.
  - P280 Wear protective gloves/ eye protection/ face protection.
  - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
  - P264 Wash skin thoroughly after handling.
  - P271 Use only outdoors or in a well-ventilated area.
  - P272 Contaminated work clothing should not be allowed out of the workplace.
  - P273 Avoid release to the environment.
- Response**
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
  - P363 Wash contaminated clothing before reuse.
  - P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide for extinction.
  - 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.
  - P312 Call a POISON CENTER/doctor if you feel unwell.
- 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.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

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<u>Components</u>	<u>CAS-No.</u>	<u>Weight percent</u>
n-Butyl acrylate	141-32-2	100

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

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### 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. Call a physician immediately.
- Ingestion** Do not induce vomiting without medical advice. Get medical attention immediately. Never give anything by mouth to an unconscious person.

### SECTION 5 FIREFIGHTING MEASURES

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#### FLAMMABLE PROPERTIES

**Fire/explosion** Flash back possible over considerable distance. NFPA Class II combustible liquid.

**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.

### SECTION 6 ACCIDENTAL RELEASE MEASURES

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**Methods and materials for containment and cleaning up** Wear personal protective equipment. 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.

### SECTION 7 HANDLING AND STORAGE

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**Safe handling advice** Ensure all equipment is electrically grounded before beginning transfer operations. Keep away from heat and sources of ignition.

**Storage/Transport pressure** Ambient

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**Load/Unload temperature** Ambient

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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#### ENGINEERING MEASURES

Air contaminant levels should be controlled below the PEL or TLV for this product (see Exposure Guidelines). Ensure adequate ventilation, especially in confined areas.

#### PERSONAL PROTECTIVE EQUIPMENT

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

**Skin** Full protective clothing, chemical boots, and chemical gloves.

**Inhalation** Use NIOSH approved respiratory protection.

#### EXPOSURE GUIDELINES

Components	Exposure limit(s)
n-Butyl acrylate	ACGIH TLV (8-hour) 2 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** stinging

**Odour Threshold** No data available

**Flash point** 41 °C, 105.8 °F;

**Flammability** Upper explosion limit: 9.9 %(V)

Lower explosion limit: 1.5 %(V)

**Boiling point/boiling range** 147 °C, 297 °F;

**Melting point/range** -64 °C, -83 °F;

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<b>Auto-ignition temperature</b>	292 °C, 558 °F;
<b>Decomposition temperature</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapour pressure</b>	5 hPa @ 20 °C, 68 °F;
<b>Vapour density</b>	4.42
<b>Density</b>	0.9 g/cm <sup>3</sup> @ 20 °C, 68 °F;
<b>Specific gravity</b>	No data available
<b>Water solubility</b>	insoluble
<b>Viscosity</b>	0.74 mm <sup>2</sup> /s @ 40 °C, 104 °F;
<b>Viscosity, dynamic</b>	0.88 mPa.s @ 20 °C, 68 °F;
<b>pH</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	log Pow: 2.36; @ 20 °C, 68 °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.
<b>Hazardous decomposition products</b>	No decomposition if stored normally. Prolonged storage of the product can cause the stabiliser to lose its effectiveness.

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**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: > 2,000 mg/kg(literature value)

**Acute inhalation toxicity** LC50 male and female Rat (4 hours): > 10 - 20 mg/l (literature value)

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

**Skin corrosion/irritation** (Rabbit): 78 hours irritating, (literature value)

**Serious eye damage/eye irritation** (Rabbit): 71 hours Irritating., (literature value)

**Respiratory or skin sensitisation** Guinea pig: Causes sensitisation.; Maximisation Test

**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

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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:**  
Contains no ingredient listed as a 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 (Oncorhynchus mykiss (rainbow trout)) 96 hours: > 1 - 10 mg/l; static test (literature value)

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 48 hours: > 1 - 10 mg/l; static test (literature value)

**Toxicity to algae** EC50 (Selenastrum capricornutum (green algae)) 96 hours: > 1 - 10 mg/l; static test (literature value)

**Chronic toxicity to fish** No data available

**Chronic toxicity to aquatic invertebrates** NOEC (Daphnia magna (Water flea)) 21 d: > 0.1 - 1 mg/l; semi-static test (literature value)

**Biodegradation** Readily biodegradable.

OECD Test Guideline 310 (28 d): > 60 % (literature value)

**Bioaccumulative potential** No bioaccumulation is to be expected (log Pow <= 4).

**Mobility in soil** The product evaporates slowly.

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

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### SECTION 13 DISPOSAL CONSIDERATIONS

- Waste Code** D001 - Ignitability (RQ 100 LB). This product has the RCRA characteristic of ignitability. 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.
- 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. Empty drums should be completely drained, triple-rinsed, properly bunged and promptly returned to a drum reconditioner, or properly disposed.

### SECTION 14 TRANSPORT INFORMATION

**DOT** UN 2348, Butyl Acrylates, Stabilized, 3, III

**IATA** UN 2348, Butyl Acrylates, Stabilized, 3, III

**IMDG** UN 2348, Butyl Acrylates, Stabilized, 3, III

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

**Remarks** No data available

### SECTION 15 REGULATORY INFORMATION

#### U.S. FEDERAL REGULATIONS

##### TSCA Inventory Listing

###### Components

2-Propenoic acid, butyl ester

###### CAS-No.

141-32-2

##### SARA 302 Status

###### Components

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

###### CAS-No.

###### Weight percent

##### SARA 311/312 Classification

"Fire hazard", "Immediate (acute) health hazard", "Reactive"

##### SARA 313 Chemical

###### Components

2-Propenoic acid, butyl ester

###### CAS-No.

141-32-2

###### Weight percent

100 %



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

Components

none

Reportable Quantity

Weight percent

### INTERNATIONAL REGULATIONS

#### WHMIS Classification

Flammable liquids	Category 3
Acute toxicity (Inhalation)	Category 4
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

#### European Union

Classification according to Regulation (EU) 1272/2008.

Flammable liquids, Category 3  
 Acute toxicity (Inhalation), Category 4  
 Eye irritation, Category 2  
 Skin 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. ISHL - Inventory of Chemical Substances</b>	Listed
<b>Canada. Domestic Substances List (DSL) Inventory</b>	Listed
<b>Canada. Non-Domestic Substance Listing (NDSL)</b>	Not 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</b>	Listed
<b>New Zealand. Inventory of Chemical Substances</b>	Listed



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Switzerland	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  
 none

CAS-No.

## 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	2	2
<b>NFPA</b>	2	2	2

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