

Butyl Acrylate

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

Trade name	Butyl Acrylate
Synonyms	2-Propenoic acid butyl ester, Acrylic acid n-butyl ester, Butyl 2-propenoate
Use	Industrial use, Intermediate, Paint and Coatings, Paper Chemical, Raw material for chemical processes, Raw material for industry
Company	HWATSI CHEMICAL PRIVATE LIMITED
Address	Plot No. 587/586, Kandla Special Economic Zone , Gandhidham, Kutch 370230
Telephone	H.O : Antop Hill Warehousing Complex, Ú - 332 & 311, Wadala (E), Mumbai - 400037. TEL NO. +91 9821727511/+91 9869056097

E-mail address Email : hwatsi.cpltd@gmail.com | bharat@hwatsichem.com
www.hwatsichem.com

SECTION 2 HAZARDS IDENTIFICATION

OSHA/GHS Hazards	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

<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

- 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

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

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

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

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

<u>Components</u>	<u>Exposure limit(s)</u>
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

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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Auto-ignition temperature	292 °C, 558 °F;
Decomposition temperature	No data available
Flammability (solid, gas)	No data available
Vapour pressure	5 hPa @ 20 °C, 68 °F;
Vapour density	4.42
Density	0.9 g/cm ³ @ 20 °C, 68 °F;
Specific gravity	No data available
Water solubility	insoluble
Viscosity	0.74 mm ² /s @ 40 °C, 104 °F;
Viscosity, dynamic	0.88 mPa.s @ 20 °C, 68 °F;
pH	No data available
Evaporation rate	No data available
Partition coefficient: n-octanol/water	log Pow: 2.36; @ 20 °C, 68 °F;

SECTION 10 STABILITY AND REACTIVITY

Reactivity	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.
Chemical stability	Ensure good distribution of the inhibitor and dissolved oxygen. Please take note of the product's maximum storage period.
Conditions to avoid	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.
Hazardous decomposition products	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.

SECTION 11 TOXICOLOGICAL INFORMATION

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

SECTION 12 ECOLOGICAL INFORMATION

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

Australia. Inventory of Chemical Substances (AICS)	Listed
Japan. Inventory of Existing and New Chemical Substances (ENCS)	Listed
Japan. ISHL - Inventory of Chemical Substances	Listed
Canada. Domestic Substances List (DSL) Inventory	Listed
Canada. Non-Domestic Substance Listing (NDSL)	Not listed
Philippines. Inventory of Chemicals / Chemical Substances (PICCS)	Listed
Korea. Existing Chemicals Inventory (KECI)	Listed
China. Inventory of Existing Chemical Substances (IECSC)	Listed
Mexico	Listed
New Zealand. Inventory of Chemical Substances	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

HAZARD RATINGS

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

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