

Material Safety Data Sheet

Butyl Acrylate

Version 1.07

Revision Date 25.01.2007



1. Identification of the substance/preparation and of the company/undertaking

Trade name	Butyl Acrylate
Synonyms	Butyl Acrylate
Use	industrial use
Company	Hitech Chemicals

2. Composition/information on ingredients

n-butyl acrylate
content: 100.00 %W/W

CAS-No. 141-32-2
Symbol(s) Xi

Index-No. 607-062-00-3 EC-No. 205-480-7
R-phrase(s) -R10 -R36/37/38 -R43

For the full text of the R phrases mentioned in this Section, see Section 16.

3. Hazards identification

Identification of the risks

R10	Flammable.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitization by skin contact.

Particular risks to human beings and the environment

Highly flammable.

4. First aid measures

General advice	When symptoms persist or in all cases of doubt seek medical advice.
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.

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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 person.

5. Fire-fighting measures

Suitable extinguishing media	Water spray, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO2)
Extinguishing media which must not be used for safety reasons	No information available.
Specific hazards during fire fighting	Flash back possible over considerable distance.
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit.
Further information	Cool containers / tanks with water spray.

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. Danger of slipping after spill or leakage.
Environmental precautions	Should not be released into the environment. Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Soak up with inert absorbent material and dispose of as hazardous waste.

7. Handling and storage

Handling

Safe handling advice	Provide sufficient air exchange and/or exhaust in work rooms. Wear personal protective equipment. Take precautionary measures against static discharges. Ensure all equipment is electrically grounded before beginning transfer operations.
Advice on protection against fire and explosion	Use explosion-proof equipment.

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Storage

Requirements for storage areas and containers Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Components with workplace control parameters

NATIONAL OCCUPATIONAL EXPOSURE LIMITS

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

Components	Type	Control parameters	Update	Basis
N-BUTYLACRYLATE	TWA	11 mg/m ³	05 2003	EU Exposure Limit Values
	TWA	2 ppm	05 2003	EU Exposure Limit Values
	STEL	53 mg/m ³	05 2003	EU Exposure Limit Values
	STEL	10 ppm	05 2003	EU Exposure Limit Values

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: Multi-layer glove - polyethylene/ethylene-vinyl alcohol copolymer/polyethylene
gloves suitable for splash protection:
Material: Multi-layer glove - polyethylene/ethylene-vinyl alcohol copolymer/polyethylene

unsuitable gloves
Material: natural rubber/natural latex, polychloroprene, nitrile rubber/nitrile latex, butyl-rubber, Leather gloves, Polyvinylchloride, leather

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.

Protective measures Wear suitable protective equipment.

9. Physical and chemical properties

Form liquid

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state of matter	liquid
Colour	colourless
Odour	strong fruity
pH	no data available
Melting point/range	-64.6 °C
Boiling point/range	145 °C
Flash point	39.5 °C; closed cup
Autoignition temperature	292.8 °C
Lower explosion limit	1.5 %(V)
Upper explosion limit	9.9 %(V)
Vapour pressure	5.333 hPa; 20 °C
Density	0.899 g/cm ³
Water solubility	insoluble
Viscosity, dynamic	no data available
Relative vapour density	4.42

10. Stability and reactivity

Materials to avoid	Strong oxidizing agents, Incompatible with acids., Strong bases
Hazardous decomposition products	Carbon oxides
Hazardous reactions	Polymerization can occur.

11. Toxicological information

Acute oral toxicity	n-butyl acrylate: LD50 rat: 900 mg/kg; (literature value)
Acute inhalation toxicity	n-butyl acrylate: LC50 rat: 2,730 mg/l; ; 4 h(literature value) n-butyl acrylate: LCLo rat: 5.05 g/m ³ ; ; 6 h(literature value)
Acute dermal toxicity	n-butyl acrylate: LD50 rabbit: 2,000 mg/kg; (literature value) n-butyl acrylate: LDLo rabbit: 1,700 mg/kg; (literature value)
Skin irritation	n-butyl acrylate: rabbit: Mild skin irritation; (literature value)
Eye irritation	n-butyl acrylate:

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rabbit: Mild eye irritation; (literature value)

12. Ecological information

Biodegradability *n*-butyl acrylate:
61 %; 14 d; (literature value)

Ecotoxicity effects

General advice Toxic to aquatic organisms.

13. Disposal considerations

Product 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.

Contaminated packaging Do not burn, or use a cutting torch on, the empty drum., Triple rinse containers., Can be offered for recycling, re-conditioning or puncture.

14. Transport information

ADR UN-No.: 2348; Class: 3; Packaging group: III; F1; Description of the goods: BUTYL ACRYLATES, STABILIZED

RID UN-No.: 2348; Class: 3; Packaging group: III; F1; Description of the goods: BUTYL ACRYLATES, STABILIZED

ADNR UN-No.: 2348; Class: 3; Packaging group: III; F1; Description of the goods: BUTYL ACRYLATES, STABILIZED

IMDG UN-No.: 2348; Class: 3; EmS: F-E, S-D; Packaging group: III; Description of the goods: BUTYL ACRYLATES, STABILIZED

ICAO/IATA UN-No. : 2348; Class: 3; Packaging group: III; Description of the goods: Butyl acrylates, stabilized

15. Regulatory information

Labelling



Regulatory base 67/548/EEC



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Symbol(s)	<i>Xi: Irritant</i>
R-phrase(s)	<i>R10: Flammable. R36/37/38: Irritating to eyes, respiratory system and skin. R43: May cause sensitization by skin contact.</i>
S-phrase(s)	<i>S 2: Keep out of the reach of children. S 9: Keep container in a well-ventilated place.</i>
Hazardous components which must be listed on the label	<i>n-butyl acrylate</i>

16. Other information

Full text of R-phrases referred to under sections 2 and 3

<i>R10</i>	<i>Flammable.</i>
<i>R36/37/38</i>	<i>Irritating to eyes, respiratory system and skin.</i>
<i>R43</i>	<i>May cause sensitization by skin contact.</i>

All reasonable efforts were exercised to compile this MSDS in accordance with ISO 11014 and ANSIZ400.1.1993. The MSDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Since we cannot anticipate or control all conditions under which the 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 MSDS in the context within which the 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 as regards 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 the product.

Although all reasonable efforts were exercised in the compilation of this MSDS, we do not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.

The MSDS was created by:

The MSDS was approved by: