

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.1 Revision Date 24.11.2014 Print Date 03.02.2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTUREAND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name : Butyl acrylate CAS-No. : 141-32-2

1.2 Relevant identified uses of the substance or mixture and uses advised against

Butyl acrylate is used in the production of homopolymers and co-polymers such as acrylic acid and its salts, esters, amides, methacrylates, acrylonitrile, maleates, vinyl acetate, vinyl chloride, vinylidene chloride, styrene, butadiene and unsaturated polyesters.

1.3 Details of the supplier of the safety data sheet

Company: Covalent Chemical LLC

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Tel:919-351-8923

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Flammable liquids (Category 3), H226 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Skin sensitisation (Category 1), H317 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 Chronic aquatic toxicity (Category 3), H412 For the full text of the H-Statements mentioned in this Section, see Section 16 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram Signal word Warning

Hazard statement(s)H226Flammable liquid and vapour.H302 + H312 + H332Harmful if swallowed, in contact with skin or if inhaled



H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statement(s)	
P261	Avoid breathing vapours.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard	none

Statements

2.3 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.

Lachrymator.

3. COMPOSITION/INFORMATIONON INGREDIENTS

3.1 substances

: C7H12O2
: 128.17 g/mol
: 141-32-2
: 205-480-7

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth withwater. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated., Cough, Shortness of breath, Headache, Nausea, Vomiting

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIRE-FIGHTING MEASURES



5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7.HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Light sensitive. Store under inert gas.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

1	1	1		
Component	CAS-No.	Value	Control parameters	Basis
Butyl acrylate	141-32-2	TWA	2 ppm	Europe. Commission Directive
			11 mg/m3	2000/39/EC establishing a first list of
				indicative occupational exposure limit values
	Remarks	Indicative		



	STEL	10 ppm 53 mg/m3	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
	Indicative		
	TWA	1 ppm	UK. EH40 WEL - Workplace
		5 mg/m3	Exposure Limits
	STEL	5 ppm	UK. EH40 WEL - Workplace
		26 mg/m3	Exposure Limits

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9.PHYSICAL AND CHEMICAL PROPERTIES



9.1 Information on basic physical and chemical properties

a) Appearance	Form: clear liquid
	Color: colorless
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and	145 °C - lit.
boiling range	
g) Flash point	36 °C - closed cup
h) Evapouration rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or	Upper explosion limit 9.9 %(V)
explosive limits	Lower explosion limit 1.3 %(V)
k) Vapour pressure	4.4 hPa at 20 °C
l) Vapour density	4.43 - (Air = 1.0)
m) Relative density	0.894 g/mL at 25 °C
n) Water solubility	slightly soluble
o) Partition coefficient	log Pow2.38
n-octanol/water	
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available
9.2 Other safety information	
Surface tension	20 mN/m at 27 °C
Relative vapour density	4.43 - (Air = 1.0)
10. STABILITYAND REACTIVITY	
10.1 Reactivity	
no data available	
10.2 Chemical stability	
Stable under recommended storage condit	ions.
Contains the following stabiliser(s):	
Mequinol (>=0.001 - <=0.006 %)	
10.3 Possibility of hazardous reactions	
no data available	
10.4 Conditions to avoid	
Heat, flames and sparks.	
10.5 Incompatible materials	
Strong acids, Strong oxidizing agents, Strong	ong bases



Other decomposition products - no data available

11.TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity LD50 Oral - rat - 900 mg/kg LC50 Inhalation - rat - 4 h - 2730 ppm Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Eye: Other. Lungs, Thorax, or Respiration:Dyspnea. LD50 Dermal - rabbit - 1,796 mg/kg Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization May cause allergic skin reaction. Germ cell mutagenicity no data available Carcinogenicity IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Butyl acrylate) Reproductive toxicity Reproductive toxicity - rat - Inhalation Maternal Effects: Other effects. Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Reproductive toxicity - rat - Inhalation Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants). Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated., Cough, Shortness of breath, Headache, Nausea, Vomiting Additional Information RTECS: UD3150000 **12. ECOLOGICAL INFORMATION** 12.1 Toxicity Toxicity to fish flow-through test LC50 - Cyprinodon variegatus (sheepshead minnow) - 2.1 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphniastatic test EC50 - Daphnia magna (Water flea) - 1.3 mg/l - 48 hand other aquatic(OECD Test Guideline 202)invertebrates

12.2 Persistence and degradability

Biodegradability

aerobic - Exposure time 28 d Result: 80 - 90 % - Readily biodegradable.

(OECD Test Guideline 310)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

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.

12.6 Other adverse effects

Toxic to aquatic life.

Avoid release to the environment

13. DISPOSAL CONSIDERATIONS

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number		
ADR/RID: 2348	IMDG: 2348	IATA: 2348
14.2 UN proper shipping name		
ADR/RID: BUTYL ACRYLATES, ST.	ABILIZED	
IMDG: BUTYL ACRYLATES, STABI	ILIZED	
IATA: Butyl acrylates, stabilized		
14.3 Transport hazard class(es)		
ADR/RID: 3	IMDG: 3	IATA: 3
14.4 Packaging group		
ADR/RID: III	IMDG: III	IATA: III
14.5 Environmental hazard		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6 Special precautions for user		
no data available		
15. REGULATORY INFORMATION	N	
15. REGULATORY INFORMATION		

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available

15.2 Chemical Safety Assessment

no data available

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H302 + H312 +	Harmful if swallowed, in contact with skin or if inhaled
H332	
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitisation
STOT SE	Specific target organ toxicity - single exposure

Further information

Covalent Chemical LLC., Limited. gives no warranty, express or implied, as to the accuracy or

completeness of this information. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions and/or compliance with federal, state, and local laws and regulations. All brand names & trade marks mentioned are the properties of their respective holders and are referred to here for descriptive purposes only. We are not associated with any printer and/or original printing supplies manufacturer.

End of SDS