



Material Safety Data Sheet

NFPA 	HMIS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #00FFFF;">Health Hazard</td> <td style="text-align: center; font-weight: bold;">2</td> </tr> <tr> <td style="background-color: #FFCCCC;">Fire Hazard</td> <td style="text-align: center; font-weight: bold;">3</td> </tr> <tr> <td style="background-color: #FFFF00;">Reactivity</td> <td style="text-align: center; font-weight: bold;">1</td> </tr> </table>	Health Hazard	2	Fire Hazard	3	Reactivity	1	Personal Protective Equipment  See Section 15.
Health Hazard	2							
Fire Hazard	3							
Reactivity	1							

Section 1. Chemical Product and Company Identification		Page Number: 1
Common Name/Trade Name	Butyl Acrylate	Catalog Number(s). B2375 CAS# 141-32-2 RTECS UD3150000 TSCA TSCA 8(b) inventory: Butyl Acrylate CI# Not available.
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300 CALL (310) 516-8000
Commercial Name(s)	Not available.	
Synonym	Acrylic acid n-butyl ester; Acrylic acid, butyl ester; Butyl-2-propenoate; n-Butyl acrylate	
Chemical Name	2-Propenoic acid, butyl ester	
Chemical Family	Not available.	
Chemical Formula	C7-H12-O2	
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248	

Section 2. Composition and Information on Ingredients					
		<i>Exposure Limits</i>			
Name	CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) Butyl Acrylate	141-32-2				100
Toxicological Data on Ingredients Butyl Acrylate: ORAL (LD50): Acute: 900 mg/kg [Rat]. 5880 mg/kg [Mouse]. DERMAL (LD50): Acute: 1780 mg/kg [Rabbit]. VAPOR (LC50): Acute: 2730 ppm 4 hours [Rat]. 7800 mg/m ³ 2 hours [Mouse].					

Section 3. Hazards Identification	
Potential Acute Health Effects	Hazardous in case of skin contact (permeator), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant).
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to kidneys, lungs, liver, upper respiratory tract, skin, eyes. Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Serious Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion	Not available.

Section 5. Fire and Explosion Data

Flammability of the Product	Flammable.
Auto-Ignition Temperature	279 C (534 F) - 292°C (557.6°F)
Flash Points	CLOSED CUP: 29°C (84.2°F) - 39 C(102.2 F). OPEN CUP: 47.778°C (118°F).
Flammable Limits	LOWER: 1.3% -1.7% UPPER: 9.4% - 9.9%
Products of Combustion	These products are carbon oxides (CO, CO2).
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat. Non-flammable in presence of shocks.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Slightly explosive in presence of open flames and sparks.
Fire Fighting Media and Instructions	Flammable liquid, soluble or dispersed in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	Vapor may travel considerable distance to source of ignition and flash back.
Special Remarks on Explosion Hazards	Vapors may form explosive mixtures with air.

Section 6. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Avoid shock and friction. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis.
Storage	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits	Not available.

Section 9. Physical and Chemical Properties

Physical state and appearance	Liquid.	Odor	Fruity. Sharp, fragrant (Strong.)
Molecular Weight	128.17 g/mole	Taste	Not available.
pH (1% soln/water)	Not available.	Color	Clear Colorless.
Boiling Point	145°C (293°F)		
Melting Point	-64.6 (-84.3°F)		
Critical Temperature	321°C (609.8°F)		
Specific Gravity	0.8898 (Water = 1)		
Vapor Pressure	0.5 kPa (@ 20°C)		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 2.4		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water, diethyl ether, acetone.		
Solubility	Soluble in diethyl ether, acetone. Very slightly soluble in cold water. Practically insoluble in water. Solubility in Water: 0.14 g/100 ml water @ 20 deg. C.; 0.12 g/100 ml water @ 40 deg. C; 2,000 mg/l water @ 23 deg. C		

Section 10. Stability and Reactivity Data

Stability	The product is stable since it is stabilized or inhibited with Hydroquinone monomethyl ether (MEHQ). However, it may undergo explosive polymerization if uninhibited. It may polymerize on exposure to light. Polymerization may occur upon heating. It is stable only if stored and handled under recommended conditions. The stability of the product depends upon the availability of both dissolved oxygen and MEHQ inhibitor. The presence of oxygen is necessary for the MEHQ to function effectively. The product should never be stored under an inert gas atmosphere, but it should always be stored under an atmosphere containing 5-21% oxygen by volume. Also, temperatures must be kept low to minimize formation of peroxides and other products. This material is a monomer and may polymerize under certain conditions if the stabilizer/inhibitor is lost. Again, hazardous polymerization may be caused elevated temperature, oxidizers, peroxides, or sunlight.
Instability Temperature	Not available.
Conditions of Instability	Heat, ignition sources, incompatible materials, light.
Incompatibility with various substances	Reactive with oxidizing agents, acids, alkalis. The product may undergo hazardous decomposition, condensation or polymerization.
Corrosivity	Not available.
Special Remarks on Reactivity	Incompatible with amines, halogens, peroxides. Sensitive to light.
Special Remarks on Corrosivity	Not available.
Polymerization	Yes, it may occur under certain conditions. Read special remarks under the section titled "Stability."

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 900 mg/kg [Rat]. Acute dermal toxicity (LD50): 1780 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 7800 mg/m ³ 2 hours [Mouse].
Chronic Effects on Humans	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: kidneys, lungs, liver, upper respiratory tract, skin, eyes.
Other Toxic Effects on Humans	Hazardous in case of skin contact (sensitizer, permeator), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (irritant).
Special Remarks on Toxicity to Animals	Lethal Dose/Conc 50% Kill: LD50 [Rabbit] - Route: Skin; Dose: 2 ml/kg
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects based on animal test data
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Causes skin irritation. It can be absorbed through the skin. It may be harmful if absorbed through the skin. Eyes: Causes eye irritation. Inhalation: It causes respiratory tract (nose, throat) irritation causing coughing and wheezing. Inhalation may affect respiration (dyspnea, pulmonary edema, suffocation). Very high exposures may damage the lungs. It may also cause central nervous system effects such as headache, nausea, drowsiness, dizziness, CNS depression. Ingestion: It causes gastrointestinal tract irritation with nausea, vomiting, and diarrhea. It may be harmful if swallowed. It may affect respiration (respiratory stimulation), and behavior/central nervous system(convulsions, and other symptoms similar to inhalation) Chronic Potential Health Effects: Prolonged or repeated inhalation or ingestion may affect the liver, kidneys. It may also affect behavior/central nervous system(drowsiness, changes in memory, concentration, or sleeping patterns, and mood(especially irritability and social withdrawal), as well as fatigue and headaches), peripheral and autonomic nervous systems. Prolonged inhalation may affect metabolism (weight loss). Very high exposures may result in pulmonary congestion or damage the lungs. Prolonged or repeated skin contact may cause sensitization an allergic reaction.


Section 12. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation	Not available.

Section 13. Disposal Considerations

Waste Disposal	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
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Section 14. Transport Information

DOT Classification	CLASS 3: Flammable liquid.
Identification	: Butyl Acrylate, stabilized UNNA: 2348 PG: III
Special Provisions for Transport	Not available.
DOT (Pictograms)	

Section 15. Other Regulatory Information and Pictograms

Federal and State Regulations	Illinois toxic substances disclosure to employee act: Butyl Acrylate Rhode Island RTK hazardous substances: Butyl Acrylate Pennsylvania RTK: Butyl Acrylate Minnesota: Butyl Acrylate Massachusetts RTK: Butyl Acrylate Massachusetts spill list: Butyl Acrylate New Jersey: Butyl Acrylate New Jersey spill list: Butyl Acrylate California Director's List of Hazardous Substances: Butyl Acrylate TSCA 8(b) inventory: Butyl Acrylate SARA 313 toxic chemical notification and release reporting: Butyl Acrylate
California Proposition 65 Warnings	California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found. California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications	WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2B: Material causing other toxic effects (TOXIC). CLASS F: Dangerously reactive material.
	DSCL (EEC)

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

S9- Keep container in a well-ventilated place.
 S16- Keep away from sources of ignition - No
 smoking.
 S24- Avoid contact with skin.
 S26- In case of contact with eyes, rinse
 immediately with plenty of water and seek
 medical advice.
 S37/39- Wear suitable gloves and eye/face
 protection.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	3
Reactivity	1
Personal Protection	h

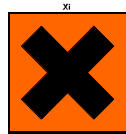
**National Fire Protection
 Association (U.S.A.)**

Health  Flammability  2
 Reactivity  2
 Specific hazard

**WHMIS (Canada)
 (Pictograms)**



**DSCL (Europe)
 (Pictograms)**



**TDG (Canada)
 (Pictograms)**



**ADR (Europe)
 (Pictograms)**



Protective Equipment



Gloves.



Lab coat.



Vapor respirator. Be sure to use an
 approved/certified respirator or
 equivalent. Wear appropriate respirator
 when ventilation is inadequate.



Splash goggles.

Section 16. Other Information**MSDS Code** 6220B**References** Not available.**Other Special Considerations** Not available.

Validated by Sonia Owen on 8/11/2006.

Verified by Sonia Owen.

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CALL (310) 516-8000

Notice to Reader

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum Quality Products, Inc. assumes no responsibility for the completeness or accuracy of the information contained herein.