



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
230	Health Hazard 2 Fire Hazard 3	
	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	1-lodobutane	Catalog Number(s).	11029, 12039
		CAS#	542-69-8
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	EK4400000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA 8(b) inventory: 1–lodobutane
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Butyl lodide; n-Butyl lodide; 1-lodobutane, 98%, stabililzed or copper	IN CASE OF	EMERGENCY
Chemical Name	1-lodobutane	CHEMTREC	(24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5	16-8000
Chemical Formula	C4-H9-I		
Supplier	SPECTRUM LABORATORY PRODUCTS INC. 14422 S. SAN PEDRO STREET GARDENA, CA 90248		

Section 2.Composition and Information on Ingredients						
				Exposure Limits		
Name		CAS #	TWA (mg/m ³)	STEL (mg/m ³)	CEIL (mg/m ³)	% by Weight
1) {1}-lodobutane		542-69-8				100
Toxicological Data on Ingredients	1-lodobutane : VAPOR (LC50): Acute: 6100 mg/m ³ 4 hours [Rat].					
Section 3. Hazards Identification						
Potential Acute Health Effects	Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant).					
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.					

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. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. 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	Not available.		
Flash Points	CLOSED CUP: 33°C (91.4°F).		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2), hydrogen iodide, iodine.		
Fire Hazards in Presence of Various Substances	Highly flammable in presence of open flames and sparks, of heat.		
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.		
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		
Section 6. Accidental	Release Measures		
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.		
Large Spill	Toxic flammable liquid, insoluble or very slightly soluble in water. 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 get water inside container. Do not touch spilled material. Prevent		

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. 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, alkalis.
Storage	Light Sensitive. Store in light-resistant container. 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). Do not store above 23°C (73.4°F).

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

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Physical state and appearance	Liquid.	Odor	Not available.
Molecular Weight	184.03 g/mole	Taste	Not available.
Wolecular Weight	184.03 g/110le	Color	Colorless.
pH (1% soln/water)	Not applicable.	COLOR	Coloness.
Boiling Point	130.5°C (266.9°F)		
Melting Point	-103°C (-153.4°F)		
Critical Temperature	Not available.		
Specific Gravity	1.67 (Water = 1)		
Vapor Pressure	Not available.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	Not available.		
Solubility	Insoluble in cold water, hot water.		

1-lodobutane

Section 10. Stability and Reactivity Data			
Stability	The product is stable.		
Instability Temperature	Not available.		
Conditions of Instability	Incompatible materials (strong oxidizing agents, strong bases), light, ignition sources, excess heat		
Incompatibility with various substances	Reactive with oxidizing agents, alkalis.		
Corrosivity	Not available.		
Special Remarks on Reactivity	Light Sensitive. Also incompatible with strong oxiders, and strong bases		
Special Remarks on Corrosivity	Not available.		
Polymerization	Will not occur.		

Section 11. Toxicological Information				
Routes of Entry	Absorbed through skin. Eye contact.			
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute toxicity of the vapor (LC50): 6100 mg/m ³ 4 hours [Rat].			
Chronic Effects on Humans	Not available.			
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant).			
Special Remarks on Toxicity to Animals	Not available.			
Special Remarks on Chronic Effects on Humans	Not available.			
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: May cause skin irritation. Eye: May cause eye irritation. Ingestion: May cause irritation of the digestive tract. The toxicological properties of the substance have not been fully investigated. Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance have not been fully investigated. May be harmful if inhaled. May cause tumorogenic effects (tumors) of the thorax or respiratory tract (lungs) based on animal data. Chronic Potential Health Effects: no information found.			

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

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Section 14. Transport Information				
DOT Classification	CLASS 3: Flammable liquid.			
Identification	: Flammable Liquid, n.o.s. (1-lodobutane) UNNA: 1993 PG: III			
Special Provisions for Transport	Not available.			
DOT (Pictograms)				
Section 15. Other	Regulatory Information and Pictograms			
Federal and State Regulations	TSCA 8(b) inventory: 1-lodobutane			
California Proposition 65 Warnings				
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-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC).			
	DSCL (EEC)R10- Flammable. R20- Harmful by inhalation. R36/37/38- Irritating to eyes, respiratory system and skin.S9- Keep container in a well-ventilated place. S16- Keep away from sources of ignition - No smoking. S29- Do not empty into drains.			
HMIS (U.S.A.)	Health Hazard 2 National Fire Protection Flammability Fire Hazard 3 Association (U.S.A.) Flammability Reactivity 0 Reactivity Reactivity			
	Reactivity 0 Personal Protection h Specific hazard			
WHMIS (Canada) (Pictograms)				
DSCL (Europe) (Pictograms)	XN			
TDG (Canada) (Pictograms)				
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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	34101	
References	Not available.	
Other Special Considerations	Not available.	
Validated by Sonia Owen on 8/11/2006.		Verified by Sonia Owen. Printed 9/12/2006.
CALL (310) 516-800	00	

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.