



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
020	Health Hazard 2 Fire Hazard 2	
	Reactivity	See Section 15.

Section 1. Chem	ical Product and Company Identification		Page Number: 1	
Common Name/ Trade Name	Isobutyl Isobutyrate	Catalog Number(s).	12035	
		CAS#	97-85-8	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	NQ5250000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Isobutyl Isobutyrate	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	2-Methylpropyl-2-methylpropanoate; 2-Methylpropyl isobutyrate Propanoic acid, 2-methyl-, 2-methylpropyl ester	IN CASE OF	IN CASE OF EMERGENCY	
Chemical Name	Isobutyric Acid, Isobutyl Ester	CHEMTREC (24hr) 800-424-9300		
Chemical Family	emical Family Not available.		16-8000	
Chemical Formula	C8-H16-O2			
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/m³)	STEL (mg/m³)	CEIL (mg/m³)	% by Weight	
1) Isobutyl Isobutyrate		97-85-8				100	
Toxicological Data   Isobutyl Isobutyrate: on Ingredients   ORAL (LD50):   Acute: 12800 mg/kg [Rat].							

Section	3. F	lazard	s Id	lenti	ficat	ion

Potential Acute Health Effects Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (irritant,

permeator), of ingestion.

**Potential Chronic Health** 

**Effects** 

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

The substance may be toxic to central nervous system (CNS).

Repeated or prolonged exposure to the substance can produce target organs damage.

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Section 4. First A	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	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.				
Serious Skin Contact	Not available.				
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.				
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. 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. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.				

Section 5. Fire and Explosion Data				
Flammability of the Product	Flammable.			
<b>Auto-Ignition Temperature</b>	432°C (809.6°F)			
Flash Points	CLOSED CUP: 38°C (100.4°F).			
Flammable Limits	LOWER: 0.96% UPPER: 7.59%			
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).			
Fire Hazards in Presence of Various Substances	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.  Risks of explosion of the product in presence of static discharge: Not available.			
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	Not available.			
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.		

**Serious Ingestion** 

Not available.

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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. Avoid contact with eyes. 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. Keep away from incompatibles such as oxidizing agents.			
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).			

Section 8. Exposure Controls/Personal Protection				
<b>Engineering Controls</b>	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.			
<b>Personal Protection</b>	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.			
<b>Exposure Limits</b>	Not available.			

Section 9. Physical and Chemical Properties					
Physical state and appearance	Liquid.	Odor	Fruity.		
Molecular Weight	144.21 g/mole	Taste	Fruity. Reminiscent of pineapple		
pH (1% soln/water)	Not available.	Color	Colorless.		
<b>Boiling Point</b>	148.6°C (299.5°F)				
Melting Point	-80.66°C (-113.2°F)				
Critical Temperature	Not available.				
Specific Gravity	0.853 (Water = 1)				
Vapor Pressure	0.6 kPa (@ 20°C)				
Vapor Density	4.97 (Air = 1)				
Volatility	Not available.				
Odor Threshold	Not available.				
Water/Oil Dist. Coeff.	Not available.				
Ionicity (in Water)	Not available.				
<b>Dispersion Properties</b>	See solubility in water, diethyl ether, n-octanol.				
Solubility	Soluble in diethyl ether, n-octanol. Very slightly soluble in cold water. Solubility in water: 1000 mg/1water @ 20 deg. C. Soluble in alcohol, and in most organic solvents.				

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Section 10. Stability	Section 10. Stability and Reactivity Data				
Stability	The product is stable.				
<b>Instability Temperature</b>	Not available.				
<b>Conditions of Instability</b>	Heat, ignition sources, incompatible materials				
Incompatibility with various substances	Reactive with oxidizing agents.				
Corrosivity	Not available.				
Special Remarks on Reactivity	Not available.				
Special Remarks on Corrosivity	Not available.				
Polymerization	Will not occur.				

Section 11. Toxicological Information			
Routes of Entry	Absorbed through skin. Eye contact. Ingestion.		
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.  Acute oral toxicity (LD50): 12800 mg/kg [Rat].  Acute toxicity of the vapor (LC50): 5000 6 hours [Rat].		
<b>Chronic Effects on Humans</b>	May cause damage to the following organs: central nervous system (CNS).		
Other Toxic Effects on Humans	Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant, permeator), of ingestion.		
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: Contact with vapor or mist causes slight skin irritation. Eyes: Vapor or mist can irritate the eyes. Inhalation: Inhalation of vapor or mist may cause respiratory tract irritation. Exposure to high levels may affect behavior/central nervous system and cause dizziness and headache. Ingestion: May cause gastrointestinal tract irritation with nausea, vomiting an diarrhea. Ingestion of large amounts may affect behavior/central nervous system and cause central nervous system depression. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the spleen.		

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
<b>Products of Biodegradation</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
<b>Toxicity of the Products of Biodegradation</b>	The product itself and its products of degradation are not toxic.		
Special Remarks on the Products of Biodegradation	Not available.		

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# Section 13. Disposal Considerations

Waste Disposal Waste must be disposed of in accordance with federal, state and local environmental

control regulations.

# Section 14. Transport Information

DOT Classification CLASS 3: Flammable liquid.

Identification : Isobutyl Isobutyrate UNNA: 2528 PG: III

**Special Provisions for** 

**Transport** 

Not available.

DOT (Pictograms)



### Section 15. Other Regulatory Information and Pictograms

Federal and State
Regulations

New Jersey: Isobutyl Isobutyrate
TSCA 8(b) inventory: Isobutyl Isobutyrate

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-2: Flammable liquid with a flash point lower than 37.8°C (100°F).

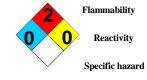
DSCL (EEC) R10- Flammable. S16- Keep away from sources of ignition - No smoking.

HMIS (U.S.A.)

Health Hazard	2
Fire Hazard	2
Reactivity	0
Personal Protection	( <b>h</b> )

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

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



TDG (Canada) (Pictograms)



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Isobutyl	Isobut	vrate
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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.

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Splash goggles.

# Section 16. Other Information MSDS Code 10081 References Not available. Other Special Considerations Validated by Sonia Owen on 8/11/2006. Verified by Sonia Owen. Printed 9/12/2006.

### 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.