



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
20	Health Hazard 2 Fire Hazard 1	
\sim	Reactivity 0	See Section 15.

Section 1. Chemical Product and Company Identification Page Number: 1			Page Number: 1	
Common Name/ Trade Name	DL-Isoleucine		Catalog Number(s).	YY004
			CAS#	443-79-8
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.		RTECS	Not available.
	14422 S. SAN PEDRO STREET GARDENA, CA 90248		TSCA	TSCA 8(b) inventory: DL-Isoleucine
Commercial Name(s)	Not available.		CI#	Not available.
Synonym	2-Amino-3-methylvaleric acid			
Chemical Name				<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.		CALL (310) 5	16-8000
Chemical Formula	C6H13NO2			
Supplier	SPECTRUM CHEMICAL MFG. CORP. 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) {DL-}Isoleucine		443-79-8				100
Toxicological Data on Ingredients DL-Isoleucine LD50: Not available. LC50: Not available.						
Section 3. Hazards Identification Potential Acute Health Effects Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant, permeator), of eye contact						
Potential Chronic Health Effects	(irritant), of inhalation. Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.					

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.
Skin Contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skir with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention Wash contaminated clothing before reusing.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medica attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Serious Inhalation	Not available.
Ingestion	Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Serious Ingestion	Not available.

Section 5. Fire and E	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
Auto-Ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).		
Fire Hazards in Presence of Various Substances	Not available.		
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	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.		
Special Remarks on Fire Hazards	Not available.		
Special Remarks on Explosion Hazards	Not available.		
Section 6. Accidental	Release Measures		

Small Spill	Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill	Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

Precautions	Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Wear suitable protective clothing In case of insufficient ventilation, wear suitable respiratory equipment If you feel unwell, seek medical attention and show the label when possible. Avoid contact with skin and eyes
Storage	Keep container dry. Keep in a cool place. Ground all equipment containing material. Keep container tightly closed. Keep in a cool, well-ventilated place. Combustible materials should be stored away from extreme heat

closed. Keep in a cool, well-ventilated place. Co and away from strong oxidizing agents.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.	
Personal Protection	Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.	
Personal Protection in Case of a Large Spill	Splash goggles. Full suit. Dust 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	Solid. (Powdered solid.)	Odor	Not available.
Malaan Waight	121 17 g/mala	Taste	Not available.
Molecular Weight	131.17 g/mole	Color	White.
pH (1% soln/water)	Not available.	00101	
Boiling Point	Not available.		
Melting Point	Decomposes. (281°C or 537.8°F)		
Critical Temperature	Not available.		
Specific Gravity	Not available.		
Vapor Pressure	Not applicable.		
Vapor Density	Not available.		
Volatility	Not available.		
Odor Threshold	Not available.		
Water/Oil Dist. Coeff.	Not available.		
Ionicity (in Water)	Not available.		
Dispersion Properties	See solubility in water.		
Solubility	Partially soluble in cold water.		
Section 10. Stability	and Reactivity Data		

Stability The product is stable. Instability Temperature Not available. Conditions of Instability Not available. Incompatibility with various substances Not available.

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Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicological Information		
Routes of Entry	Dermal contact. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	LD50: Not available. LC50: Not available.	
Chronic Effects on Humans	Not available.	
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant, permeator), of inhalation.	
Special Remarks on Toxicity to Animals	Not available.	
Special Remarks on Chronic Effects on Humans	Passes through the placental barrier in human.	
Special Remarks on other Toxic Effects on Humans	Not available.	

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 more toxic.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Waste Disposal

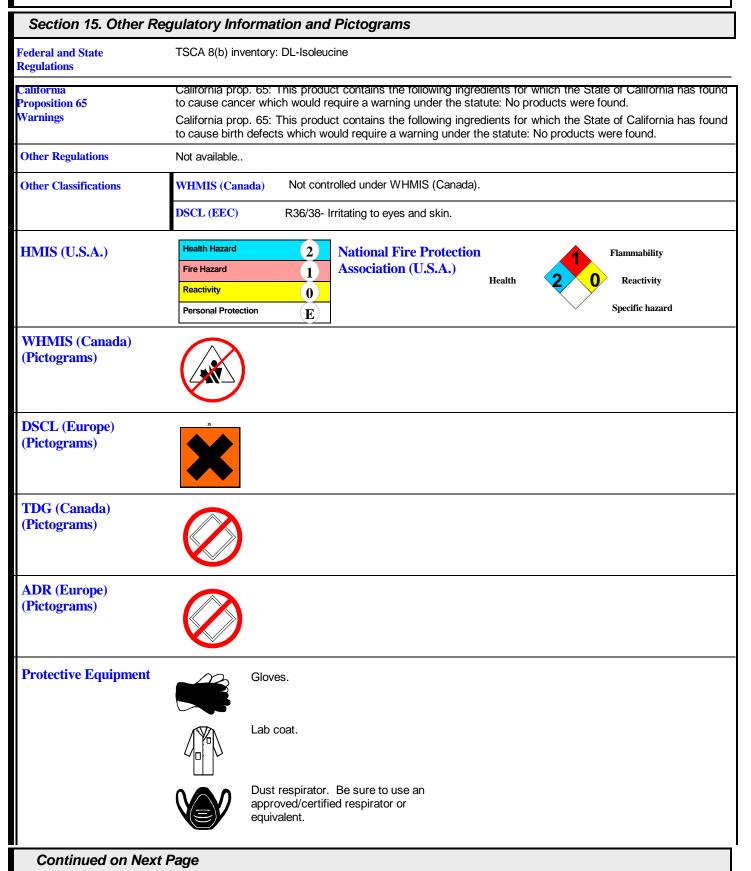
DOT Classification	ification Not a DOT controlled material (United States).	
Identification	Not applicable.	
Special Provisions for Transport	Not applicable.	

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DL-Isoleucine

DOT (Pictograms)





DL-Isoleucine



Splash goggles.

Section 16. Other Information

MSDS Code	13264	
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.