



# **Material Safety Data Sheet**

NFPA	HMIS	Personal Protective Equipment
210	Health Hazard 2 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1	
Common Name/ Trade Name	+/2-Ethylhexanoic acid	Catalog Number(s).	E2833	
		CAS#	149-57-5	
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	MO7700000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: +/2-Ethylhexanoic acid	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	2-Butylbutanoic acid; 2-Ethylcaproic acid; 2-Ethylhexanoic 2-Ethylhexoic acid; 3-Heptanecarboxylic acid; Butylethylacetic aci	d IN CASE OF	EMERGENCY	
Chemical Name	Hexanoic acid, 2-ethyl-	CHEMTREO	C (24hr) 800-424-9300	
Chemical Family	nemical Family Not available.		CALL (310) 516-8000	
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) {+/-}{-2-}Ethylhexanoic acid	149-57-5				100

**Foxicological Data** +/--2-Ethylhexanoic acid:

on Ingredients ORAL (LD50): Acute: 3000 mg/kg [Rat]. VAPOR (LC50): Acute: >400 ppm 6 hours [Rat].

#### Section 3. Hazards Identification

Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion. Corrosive to skin and eyes on contact. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.

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Potential Chronic Health Effects	Slightly hazardous in case of skin contact (sensitizer).  CARCINOGENIC EFFECTS: Not available.  MUTAGENIC EFFECTS: Not available.  TERATOGENIC EFFECTS: Not available.  DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED].  The substance may be toxic to the reproductive system, mucous membranes, skin, eyes.  Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

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. 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	Not available.	
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.	
<b>Serious Ingestion</b>	Not available.	

Section 5. Fire and E.	Section 5. Fire and Explosion Data		
Flammability of the Product	May be combustible at high temperature.		
<b>Auto-Ignition Temperature</b>	371°C (699.8°F)		
Flash Points	OPEN CUP: 118°C (244.4°F).		
Flammable Limits	LOWER: 0.8% UPPER: 6%		
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO2).		
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence 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	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.		

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Section 6. Acc	idental Release Measures
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
arge Spill	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. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary

Section 7. Handling and Storage		
Precautions	Keep container dry. 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 ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. 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, reducing agents, alkalis.	
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.	

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>	Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.	
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.	

Physical state and appearance	Liquid.	Odor	mild	
Molecular Weight	144.21 g/mole	Taste	Not available.	
pH (1% soln/water)	Not available.	Color	Clear Colorless.	
<b>Boiling Point</b>	228°C (442.4°F)			
Melting Point	-59°C (-74.2°F)			
Critical Temperature	Not available.			
Specific Gravity	0.9031 (Water = 1)			
Vapor Pressure	0 kPa (@ 20°C)			
Vapor Density	5 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(o	oil/water) = 2.6		
Ionicity (in Water)	Not available.			
<b>Dispersion Properties</b>	See solubility in water, diethyl ether.			

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Solubility	Soluble in diethyl ether. Very slightly soluble in cold water. Solubility in Water: 1.4 g/l @ 25 deg. C.; 0.2% @ 20 deg. C Soluble in carbon tetrachloride. Slightly soluble in ethanol.	

Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
<b>Instability Temperature</b>	Not available.	
<b>Conditions of Instability</b>	Excess heat, incompatible materials.	
Incompatibility with various substances	Reactive with oxidizing agents, reducing agents, alkalis.	
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.	
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.  Acute oral toxicity (LD50): 3000 mg/kg [Rat].  Acute toxicity of the dust (LC50): >400 6 hours [Rat].	
Chronic Effects on Humans	<b>DEVELOPMENTAL TOXICITY</b> : Classified Reproductive system/toxin/female, Reproductive system/toxin/male [SUSPECTED].  May cause damage to the following organs: the reproductive system, mucous membranes, skin, eyes.	
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of inhalation. Slightly hazardous in case of skin contact (permeator), of ingestion.	
Special Remarks on Toxicity to Animals	Lethal Dose Conc/50% Kill: LD50 [Rabbit] - Route: Skin; Dose: 1260 ul/kg LD50 [Guinea Pig] - Route: Skin; Dose: 6300 ul/kg	
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. May affect genetic material (mutagenic)	
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Skin: Causes skin irritation. It may be absorbed through the skin. It may be harmful if absorbed through the skin. However, a single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts.  Eyes: Causes moderate to severe eye irritation. It may cause corneal damage followed by prompt healing. Inhalation: It may cause respiratory tract irritation with burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation of large amounts may be fatal as a result of spasm, inflammation, and edema of the larynx, and bronchi, chemical pneumonitis, and pulmonary edema. Ingestion: It may cause gastrointestinal tract irritation with nausea, vomiting, and diarrhea. Chronic Potential Health Effects:  Skin: Prolonged or repeated skin contact may cause defatting and dermatitis. Ingestion: Prolonged or repeated ingestion may affect the liver, blood, and metabolism.	

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.		
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.

#### Section 14. Transport Information

**DOT Classification** Not a DOT controlled material (United States).

Identification Not applicable.

Special Provisions for Transport Not applicable.

**DOT** (Pictograms)



#### Section 15. Other Regulatory Information and Pictograms

Federal and State TSCA 8(b) inventory: +/--2-Ethylhexanoic acid Regulations TSCA 8(a) IUR: +/--2-Ethylhexanoic acid

TSCA 8(d) H and S data reporting: +/--2-Ethylhexanoic acid: Effective Date: 6/28/84; Sunset Date: 6/28/94

California Proposition 65		to cause cancer which would require a warning under the statute: No products were found.		
Warnings		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 E: Corrosive liquid.		
	DSCL (EEC)	R63- Possible risk of harm to the unborn child.	S36/37- Wear suitable protective clothing and gloves.	

#### **HMIS (U.S.A.)**

Health Hazard	2
Fire Hazard	1
Reactivity	0
Personal Protection	

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

Health



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WHMIS (Canada) (Pictograms)		
DSCL (Europe) (Pictograms)		
TDG (Canada) (Pictograms)		
ADR (Europe) (Pictograms)		
Protective Equipment	Gloves.	
1	Full suit.	
	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
	Face shield.	
Section 16. Other Information	on	
MSDS Code E0179		

Section 16. Other Information		
MSDS Code	E0179	
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) 516-8000		

Notice to Reader

## +/--2-Ethylhexanoic acid

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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.