



Material Safety Data Sheet

NFPA	HMIS	Personal Protective Equipment
3 0	Health Hazard 3 Fire Hazard 1	
	Reactivity	See Section 15.

Section 1. Chemical Product and Company Identification			Page Number: 1
Common Name/ Trade Name	Heptanoic Acid	Catalog Number(s).	H2126
		CAS#	111-14-8
Manufacturer	SPECTRUM LABORATORY PRODUCTS INC.	RTECS	MJ1575000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Heptanoic Acid
Commercial Name(s)	Not available.	CI#	Not applicable.
Synonym	1-Hexanecarboxylic acid; Enanthic acid; Enanthylic acid; Hepty acid; n-Heptoic acid; n-Heptylic acid; Oenanthic acid; Oenanthy acid	lic IN CASE OF	EMERGENCY (24hr) 800-424-9300
Chemical Name	Heptanoic Acid		
Chemical Family	hemical Family Acid.		16-8000
Chemical Formula	C7-H14-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) Heptanoic Acid		111-14-8				100
Toxicological Data on Ingredients	Heptanoic Acid: ORAL (LD50):	Acute: 7000 mg	/kg [Rat]. 6400 mg/l	kg [Mouse].		

Section 3. Hazards Identification

Potential Acute Health Effects Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive), of eye contact (corrosive). Slightly hazardous in case of skin contact (permeator). 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. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Continued on Next Page

Heptanoic Acid	Page Number: 2
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. 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 A	id 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. Get medical attention immediately.
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. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.
Serious Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
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 immediate 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.
Serious Ingestion	Not available.

Section 5. Fire and E.	xplosion Data
Flammability of the Product	May be combustible at high temperature.
Auto-Ignition Temperature	289°C (552.2°F)
Flash Points	CLOSED CUP: >112°C (233.6°F).
Flammable Limits	LOWER: 1.1% UPPER: 10%
Products of Combustion	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	When heated to decomposition it emits acrid smoke and irritating fumes.
Special Remarks on Explosion Hazards	Not available.

Heptanoic Acid			Page Number: 3
Section 6. Accidental	Release Measures		
Small Spill	Dilute with water and mop up, or absorb with an container. If necessary: Neutralize the residue with		
Large Spill	Corrosive liquid. Stop leak if without risk. Absorb with DRY earth, sa container. Do not touch spilled material. Use wate basements or confined areas; dike if needed. El Neutralize the residue with a dilute solution of so	r spray curi iminate all	tain to divert vapor drift. Prevent entry into sewers ignition sources. Call for assistance on disposal
Section 7. Handling a	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. 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.		
Storage	Keep container tightly closed. Keep container in a c	cool, well-ve	entilated area.
Section 8. Exposure	Controls/Personal Protection		
Engineering Controls	Provide exhaust ventilation or other engineering correspective threshold limit value. Ensure that exwork-station location.		
Personal Protection	Face shield. Full suit. Vapor respirator. Be sure Boots.	to use an a	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.		
	nd Chemical Properties		
Physical state and appearance	•	Odor	Disagreeable. Rancid. Faint Tallow-like
2 27 Steat State and appearance	q (On) inquisi,	3401	2.55.g. 5500101. 1 Carlotta. 1 Carlott 11000 11100

Section 9. Physical and Chemical Properties				
Physical state and appearance	Liquid. (Oily liquid.)	Odor	Disagreeable. Rancid. Faint Tallow-like	
Molecular Weight	130.19 g/mole	Taste	Not available.	
pH (1% soln/water)	Acidic.	Color	Clear	
Boiling Point	222.2°C (432°F)			
Melting Point	-7.5°C (18.5°F)			
Critical Temperature	Not available.			
Specific Gravity	0.92 (Water = 1)			
Vapor Pressure	Not available.			
Vapor Density	4.49 (Air = 1)			
Volatility	Not available.			
Odor Threshold	Not available.			
Water/Oil Dist. Coeff.	The product is more soluble in oil; log(oil/water) = 2	2.4		
Ionicity (in Water)	Not available.			
Dispersion Properties	See solubility in water, diethyl ether, acetone.			
Solubility	Soluble in diethyl ether, acetone. Partially soluble in cold water.			

Continued on Next Page

Heptanoic Acid		Page Number: 4
Section 10. Stability and Reactivity Data		
Stability	The product is stable.	
Instability Temperature	Not available.	
Conditions of Instability	Excess heat, 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.	

Section 11. Toxicolo	ogical Information
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Toxicity to Animals	Acute oral toxicity (LD50): 6400 mg/kg [Mouse].
Chronic Effects on Humans	Not available.
Other Toxic Effects on Humans	Very hazardous in case of skin contact (irritant), of ingestion, . Hazardous in case of skin contact (corrosive), of eye contact (corrosive), of inhalation (lung corrosive). Slightly hazardous in case of skin contact (permeator).
Special Remarks on Toxicity to Animals	Not available.
Special Remarks on Chronic Effects on Humans	May cause adverse reproductive effects and birth defects (teratogenic) based on animal test data. No human data found.
Special Remarks on other Toxic Effects on Humans	Acute Potential Health Effects: Causes severe irritation and burns. May cause skin rash in (in milder cases). Eyes: Causes severe irritation and burns. May cause chemical conjunctivitis and corneal damage. Inhalation: Causes irritation and chemical burns to the respiratory tract. Ingestion: Causes gastrointestinal/digestive tract burns. May cause severe and permanent damage to the digestive. May cause perforation of the digestive tract. May affect behavior (convulsions).

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 product itself and its products of degradation are not toxic.		
Special Remarks on the Products of Biodegradation	Not available.		

Polymerization

Will not occur.

Heptanoic Acid Page Number: 5

Section 13. Disposal Considerations

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

control regulations.

Section 14. Transport Information

DOT Classification Class 8: Corrosive material

Identification : Corrosive Liquid, Organic, n.o.s. (Heptanoic Acid) UNNA: 3265 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: Heptanoic Acid

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

CLASS E: Corrosive liquid. WHMIS (Canada)

DSCL (EEC) R34- Causes burns.

S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28- After contact with skin, wash immediately with plenty of [***] S36/37/39- Wear suitable protective clothing,

gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

HMIS (U.S.A.)



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

Health



WHMIS (Canada) (Pictograms)



DSCL (Europe) (Pictograms)



Continued on Next Page

Heptanoic Acid	Page Number: 6
----------------	----------------

TDG (Canada) (Pictograms)



ADR (Europe) (Pictograms)



Protective Equipment



Gloves.



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		
MSDS Code	3140H	
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

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.