



Material Safety Data Sheet

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

Section 1. Chem	ical Product and Company Identification		Page Number: 1
Common Name/ Trade Name	Heptanol	Catalog Number(s).	HE165
		CAS#	111-70-6
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	MK0350000
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: Heptanol
Commercial Name(s)	Not available.	CI#	Not available.
Synonym	Not available.		
Chemical Name	Not available.		<u>EMERGENCY</u> (24hr) 800-424-9300
Chemical Family	Not available.	CALL (310) 5 [,]	16-8000
Chemical Formula	CH3(CH2)6OH		
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) Heptanol		111-70-6				100
Toxicological Data on Ingredients	Heptanol: ORAL (LD50): DERMAL (LD50): VAPOR (LC50):	Acute: 500 mg/kg Acute: 2000 mg/k Acute: 9333.8 pp	kg [Rabbit].			
Section 3. Hazards lo	lentification					
Potential Acute Health Effects	Very hazardous in ca inhalation.	ase of ingestion. Ha	zardous in case of	skin contact (irri	tant), of eye con	tact (irritant), of
Potential Chronic Health Effects	Very hazardous in cas Hazardous in case of CARCINOGENIC EFF MUTAGENIC EFFEC TERATOGENIC EFFE DEVELOPMENTAL T The substance is toxic Repeated or prolonged	skin contact (irritant), FECTS: Not available. TS: Not available. ECTS: Not available. TOXICITY: Not available. to lungs, the nervous	ole. s system, mucous r	membranes.	nage.	

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Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. 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 skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. 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 immediate medical attention.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate 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. Seek medical attention.
Ingestion	Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. 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	xplosion Data		
Flammability of the Product	Combustible.		
Auto-Ignition Temperature	Not available.		
Flash Points	CLOSED CUP: 73°C (163.4°F).		
Flammable Limits	Not available.		
Products of Combustion	These products are carbon oxides (CO, CO2).		
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	Section 6. Accidental Release Measures		
Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.		
Large Spill	Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.		

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/ vapour/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
Storage	Flammable materials should be stored in a separate safety storage cabinet or room. Keep away from heat. Keep

away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material. Keep container dry. Keep in a cool place.

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

110.0 a/mala	Taste	Not available.
	1 usee	NOL AVAIIADIE.
116.2 g/mole	Color	Colorless.
Not available.		
175.8°C (348.4°F)		
-34.6°C (-30.3°F)		
Not available.		
0.824 (Water = 1)		
Not available.		
Not available.		
Not available.		
0.49 ppm		
Not available.		
	-34.6°C (-30.3°F)Not available.0.824 (Water = 1)Not available.Not available.Not available.0.49 ppmNot available.Not available.	175.8°C (348.4°F)-34.6°C (-30.3°F)Not available.0.824 (Water = 1)Not available.Not available.Not available.0.49 ppmNot available.Not available.

 Stability
 The product is stable.

 Instability Temperature
 Not available.

 Conditions of Instability
 Not available.

 Incompatibility with various substances
 Not available.

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Heptanol		Page Number: 4
Corrosivity	Non-corrosive in presence of glass.	
Special Remarks on Reactivity	Not available.	
Special Remarks on Corrosivity	Not available.	
Polymerization	No.	

Section 11. Toxicolo	ogical Information
Routes of Entry	Eye contact. Inhalation. Ingestion.
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 500 mg/kg [Rat]. Acute dermal toxicity (LD50): 2000 mg/kg [Rabbit]. Acute toxicity of the vapor (LC50): 9333.8 ppm 4 hour(s) [Rat].
Chronic Effects on Humans	The substance is toxic to lungs, the nervous system, mucous membranes.
Other Toxic Effects on Humans	Very hazardous in case of ingestion. Hazardous in case of skin contact (irritant), of inhalation.
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	Not available.

Section 12. Ecologic	cal 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	CLASS 6.1: Poisonous material.
Identification	: Toxic liquid, organic, n.o.s. (1-Heptanol) : UN2810 PG: III
Special Provisions for Transport	Not available.

Heptanol

DOT (Pictograms)



Section 15. Other Re	egulatory Information and Pictograms			
Federal and State Regulations	TSCA 8(b) inventory: Heptanol			
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).			
Other Classifications	WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC).			
	DSCL (EEC) R21/22- Harmful in contact with skin and if swallowed. R36/38- Irritating to eyes and skin.			
HMIS (U.S.A.)	Health Hazard2National Fire Protection Association (U.S.A.)Flammability ReactivityReactivity0			
	Personal Protection h Specific hazard			
WHMIS (Canada) (Pictograms)				
DSCL (Europe) (Pictograms)				
TDG (Canada) (Pictograms)				
ADR (Europe) (Pictograms)				
Protective Equipment	Gloves.			
	Lab coat.			
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Heptanol



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	H3100		
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) 516-80	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.