



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	2-Heptanone	Catalog Number(s).	YY279, H2078	
		CAS#	110-43-0	
Manufacturer	SPECTRUM CHEMICAL MFG. CORP.	RTECS	MJ5075000	
	14422 S. SAN PEDRO STREET GARDENA, CA 90248	TSCA	TSCA 8(b) inventory: 2-Heptanone	
Commercial Name(s)	Not available.	CI#	Not available.	
Synonym	Methyl amyl ketone			
Chemical Name			IN CASE OF EMERGENCY CHEMTREC (24hr) 800-424-9300	
Chemical Family	Chemical Family Not available.		516-8000	
Chemical Formula	C7H14O			
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) {2-}Heptanone 110-43-0		110-43-0	465		150	100
Toxicological Data on Ingredients	2-Heptanone : ORAL (LD50): Acute: 1670 mg/kg [Rat]. 730 mg/kg [Mouse]. DERMAL (LD50): Acute: 10220 mg/kg [Rabbit].					
Section 3. Hazards Identification Potential Acute Health Effects Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator).					n (lung irritant).	
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.					

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 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 Explosion Data Flammability of the Product Flammable.

Auto-Ignition Temperature	393°C (739.4°F)
Flash Points	CLOSED CUP: 38.9°C (102°F). OPEN CUP: 48.89°C (120°F).
Flammable Limits	LOWER: 1.1% UPPER: 7.9%
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	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	Not available.
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. Eliminate all ignition sources. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

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Section 7. Handling a	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 away from sources of ignition. Keep container tig equipment containing material. Keep container dry.	htly closed	brage cabinet or room. Keep away from heat. Keep l. Keep in a cool, well-ventilated place. Ground all a cool place.			
Section 8. Exposure	Controls/Personal Protection					
Engineering Controls			ep the airborne concentrations of vapors below their stations and safety showers are proximal to the			
Personal Protection	Splash goggles. Lab coat. Vapor respirator. Bo Gloves.	e sure to ι	use an approved/certified respirator or equivalent.			
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	TWA: 100 CEIL: 150 (ppm) TWA: 465 CEIL: 700 (mg/m³)					
	Consult local authorities for acceptable exposure limits.					
Section 9. Physical a	nd Chemical Properties					
Physical state and appearance	Liquid.	Odor	Banana-like.			
Molecular Weight	114.19 g/mole	Taste	Not available.			
pH (1% soln/water)	Not available.	Color	Colorless to light yellow.			
Boiling Point	151.5°C (304.7°F)					
Melting Point	-35.5°C (-31.9°F)					
Critical Temperature	Not available.					
Specific Gravity	0.8197 (Water = 1)					
Vapor Pressure	1.6 mm of Hg (@ 20°C)					
Vapor Density	3.94 (Air = 1)					
Volatility	Not available.					
Odor Threshold	0.02 ppm					
Water/Oil Dist. Coeff.	The product is equally soluble in oil and water; log(o	il/water) =	0			
Ionicity (in Water)	Not available.					
Dispersion Properties	Not available.					
Solubility	Very slightly soluble in cold water.					

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Stability	The product is stable.
Stability	
Instability Temperature	Not available.
Conditions of Instability	Not available.
Incompatibility with various substances	Not available.
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	Eye contact. Inhalation. Ingestion.		
Toxicity to Animals	Acute oral toxicity (LD50): 730 mg/kg [Mouse]. Acute dermal toxicity (LD50): 10220 mg/kg [Rabbit].		
Chronic Effects on Humans	Not available.		
Other Toxic Effects on Humans	Hazardous in case of skin contact (irritant), of ingestion, of inhalation (lung irritant). Slightly hazardous in case of skin contact (permeator).		
Special Remarks on Toxicity to Animals	Not available.		
Special Remarks on Chronic Effects on Humans	Detected in maternal milk in human.		
Special Remarks on other Toxic Effects on Humans	Not available.		

Section	12.	Ecological	Information
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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

Section 14. Transport Information					
DOT Classification	CLASS 3: Combustible liquid with a flash point greater than 37.8C (100F).				
Identification	: Flammable liquids n.o.s. : UN1993 PG: Not available.				
Special Provisions for Transport	Not available.				
DOT (Pictograms)					
Section 15. Other	Regulatory Information and Pictograms				
Federal and State Regulations	Rhode Island RTK hazardous substances: 2-Heptanone Pennsylvania RTK: 2-Heptanone Florida: 2-Heptanone Massachusetts RTK: 2-Heptanone New Jersey: 2-Heptanone TSCA 8(b) inventory: 2-Heptanone				
California 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	WHMIS (Canada) CLASS B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). DSCL (EEC) R10- Flammable. R36/37/38- Irritating to eyes,				
HMIS (U.S.A.)	respiratory system and skin. Health Hazard 2 Fire Hazard 2 Reactivity 0 Personal Protection h				
WHMIS (Canada) (Pictograms)					
DSCL (Europe) (Pictograms)					
TDG (Canada) (Pictograms)					
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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.	
		Splash goggles.	
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Section 16. Other Information		
MSDS Code	H3102	
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.