



DATE PREPARED: 7/5/2016

Section 1. Product and Company Identification

Product Name Heptane 142-82-5 **CAS Number**

Parchem - fine & specialty chemicals

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EMERGENCY RESPONSE NUMBER

CHEMTEL

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315

Specific target organ toxicity - single exposure (Category 3), Central nervous system, H336

Aspiration hazard (Category 1), H304

Acute aquatic toxicity (Category 1), H400

Chronic aquatic toxicity (Category 1), H410

GHS Label Elements

Pictograms:



Signal word: DANGER

Hazard and precautionary statements **Hazard Statements**

H225 Highly flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

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P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.

Rinse skin with water/shower.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P331 Do NOT induce vomiting.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.

P391 Collect spillage.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

Section 3. Composition / Information on Ingredients

Common NameHeptaneFormulaC7H16CAS Number142-82-5

COMPONENT	CAS NUMBER	CONCENTRATION
Heptane	142-82-5	<= 100%

Section 4. First Aid Measures

Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance.

Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician.

Skin contact: Wash off with soap and plenty of water. Consult a physician.

Eye contact: Flush eyes with water as a precaution.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water. Consult a physician.





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Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11 Indication of any immediate medical attention and special treatment needed: No data available

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Special hazards arising from the substance or mixture: Flash back possible over considerable distance.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Further information: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray to cool unopened containers.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections: For disposal see section 13.

Section 7. Handling and Storage

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. For precautions see section 2.

Conditions for safe storage, including any incompatibilities: Store under inert gas. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510): Flammable liquids





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Section 8. Exposure Controls / Personal Protection

Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis	
Heptane	142-82-5	TWA	85.000000 ppm	USA. NIOSH Recommended	
			350.000000 mg/m ³	Exposure Limits	
		С	440.000000 ppm	USA. NIOSH Recommended	
			1800.000000 mg/m ³	Exposure Limits	
	Remarks	15 minute ceiling value			
	-	TWA	500.000000 ppm	USA. Occupational Exposure	
			2000.000000 mg/m ³	Limits (OSHA) - Table Z-1 Limits	
				for Air Contaminants	
		The value in mg/m³ is approximate			
		TWA	400.000000 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		STEL	500.000000 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		TWA	400.000000 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		STEL	500.000000 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		TWA	400 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		STEL	500 ppm	USA. ACGIH Threshold Limit	
				Values (TLV)	
		Central Nervous System Impairment Upper Respiratory Tract Irritation			
		PEL	400 ppm 1,600 mg/m ³	California permissible exposure	
				limits for chemical contaminants	
				(Title 8, Article 107)	
		STEL	500 ppm 2000 mg/m ³	California permissible exposure	
				limits for chemical contaminants	
				(Title 8, Article 107)	

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Exposure controls

Appropriate engineering controls: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection: Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection: Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Liquid **Odor:** No data available

Odor Threshold: No data available

pH: No data available

Melting point/freezing point: -91°C (-132°F)

Initial boiling point and boiling range: 98°C (208°F)

Flash point (Closed Cup): -4.0°C (24.8°F) Evaporation rate: No data available

Flammability (solid, gas): No data available

Upper/lower flammability or explosive limits

Upper explosion limit: 7% (V) Lower explosion limit: 1.1% (V)

Vapor pressure: 110.7 hPa (83.0 mmHg) at 37.7°C (99.9°F) **Vapor pressure:** 53.3 hPa (40.0 mmHg) at 20.0°C (68.0°F)

Vapor density: No data available

Relative density: 0.684 g/mL at 25°C (77°F)

Water solubility: Insoluble





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Partition coefficient (n-Octanol/water): log Pow: > 3.000

Auto-ignition temperature: 223.0°C (433.4°F)

Decomposition temperature: No data available

Viscosity: No data available

Explosive properties: No data available **Oxidizing properties:** No data available

Other safety information: No data available

Section 10. Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames, and sparks. **Incompatible materials:** Strong oxidizing agents

Hazardous decomposition products

Other decomposition products: No data available

Hazardous decomposition products formed under fire conditions: Carbon oxides

In the event of fire: see section 5

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity

LC50 Inhalation - Rat: 103,000 mg/m³ (4h) **Inhalation:** Irritating to respiratory system.

Dermal: No data available

Skin corrosion/irritation: No data available

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.





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IARC: No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: May be fatal if swallowed and enters airways.

Additional Information

RTECS: MI7700000

Prolonged or repeated exposure to skin causes defatting and dermatitis. Central nervous system

depression, narcosis, Damage to the lungs.

Stomach - Irregularities - Based on Human Evidence

Section 12. Ecological Information

Toxicity

Toxicity to fish

LC50 - Carassius auratus (goldfish): 4 mg/l (24.0 h) LC50 - Tilapia mossambica: 375 mg/l (96.0 h)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea): 1.50 mg/l (48 h)

Persistence and degradability

Ratio BOD/ThBOD 3.5 %

Bioaccumulative potential: Indication of bioaccumulation.

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety

assessment not required/not conducted

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects. Do not empty into drains. Avoid release to the environment.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.





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Section 14. Transport Information

DOT (US)

UN Number: 1206

Class: 3

Packing group: II

Proper shipping name: Heptanes Reportable Quantity (RQ): N/A

Marine Pollutant: Yes

Poison Inhalation Hazard: No

IMDG

UN number: 1206

Class: 3

Packing group: II EMS-No: F-E, S-D

Proper shipping name: Heptanes

Marine pollutant: yes

IATA

UN number: 1206

Class: 3

Packing group: **■**

Proper shipping name: Heptanes

Section 15. Regulatory Information

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right to Know Components

Heptane (CAS-No. 142-82-5) Revision Date: 1993-04-24

Pennsylvania Right to Know Components

Heptane (CAS-No. 142-82-5) Revision Date: 1993-04-24

New Jersey Right to Know Components

Heptane (CAS-No. 142-82-5) Revision Date: 1993-04-24





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California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

HMIS Rating Health: 2* Flammability: 3 Reactivity: 0

NFPA Rating Health: 2 Flammability: 3

Reactivity: 0

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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