

# SAFETY DATA SHEET



Date Issued : 07/27/2007  
 SDS No : HEP  
 Date Revised : 04/10/2019  
 Revision No : 10

## n-HEPTANE

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** n-HEPTANE

**ALTERNATE TRADE NAME(S):** HEPTANE, HEPTANE ACS

**MANUFACTURER**

Distributed by Tarr, LLC

P.O. Box 12570

Portland, OR 97212

**Customer Service:** 503-288-5294

**24 HR. EMERGENCY TELEPHONE NUMBERS**

**CHEMTREC (US Transportation) :**(800) 424 - 9300

**CANUTEC (Canadian Transportation) :**(613) 996 - 6666

### 2. HAZARDS IDENTIFICATION

#### GHS CLASSIFICATIONS

**Health:**

Skin Irritation, Category 2

Aspiration Hazard, Category 1

Target Organ Toxicity (Single exposure), Category 3

**Environmental:**

Acute Hazards to the Aquatic Environment, Category 1

Chronic Hazards to the Aquatic Environment, Category 1

**Physical:**

Flammable Liquids, Category 2

#### GHS LABEL



Flame



Health  
hazard



Exclamation  
mark



Environment

**SIGNAL WORD:** DANGER

#### HAZARD STATEMENTS

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H332: Harmful if inhaled.

H305: May be harmful if swallowed and enters airways.

H410: Very toxic to aquatic life with long lasting effects.

#### PRECAUTIONARY STATEMENTS

**General:**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep container tightly closed.

P240: Ground and bond container and receiving equipment.

P241: Use explosion-proof [electrical/ventilating/lighting/...] equipment.

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

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P312: Call a POISON CENTER/doctor/...if you feel unwell.

P331: Do NOT induce vomiting.

P403: Store in a well-ventilated place.

P102: Keep out of reach of children.

**EMERGENCY OVERVIEW**

**IMMEDIATE CONCERNS: DANGER!** Highly flammable liquid and vapor. Harmful or fatal if swallowed. Vapor harmful. May cause central nervous system depression. May be irritating to eyes, skin, nose, throat and respiratory tract.

**POTENTIAL HEALTH EFFECTS**

**EYES:** Moderately irritating to eyes.

**SKIN:** Liquid is mildly irritating to the skin. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

**INGESTION: POISONOUS,** Contains methanol. May be fatal or cause blindness if swallowed. Ingestion may have a narcotic effect including signs of Central Nervous System (CNS) depression such as dizziness, light-headedness, headache, drowsiness, loss of coordination, and fatigue. This material may get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**INHALATION:** May cause mild irritation to the nose, throat and respiratory tract and may result in central nervous system (CNS) depression.

**MEDICAL CONDITIONS AGGRAVATED:** Pre-existing disorders of the following organ(s) or organ system(s) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidney.

**ROUTES OF ENTRY:** Inhalation, skin absorption, skin contact, eye contact, ingestion.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Vol. %	CAS
n-Heptane	100	142-82-5

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Remove contaminated clothing/shoes. Flush skin with water for at least 15 minutes. Follow by washing with soap and water. If irritation occurs, get medical attention. Do not reuse clothing until cleaned.

**INGESTION:** Call poison control center or get medical help immediately. Only induce vomiting as directed by medical personnel and only if patient is conscious and alert. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove from exposure to fresh air. If not breathing, give artificial respiration or if breathing is difficult, oxygen should be administered by qualified personnel. Get medical aid if cough or other symptoms appear.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE EFFECTS:** Early to moderate CNS depression may be evidenced by giddiness, headache, dizziness, and nausea; in extreme cases, unconsciousness and death may occur. Aspiration pneumonitis may be evidenced by coughing, labored breathing and cyanosis. Repeated overexposure may cause damage to kidneys and liver.

**ADDITIONAL INFORMATION:** Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. Impaired function from preexisting disorders may be aggravated by exposure to this product.

**5. FIRE FIGHTING MEASURES**

**FLAMMABLE CLASS:** Class IB flammable liquid.

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**EXTINGUISHING MEDIA:** Use water fog, "alcohol" foam, dry chemical, or CO<sub>2</sub>.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon monoxide and unidentified organic compounds may be formed during combustion.

**EXPLOSION HAZARDS:** When heated above the flash point, this material emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

**FIRE FIGHTING PROCEDURES:** WARNING! Flammable Liquid. Clear fire area of unprotected personnel. Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved SCBA. Cool fire exposed containers with water.

**6. ACCIDENTAL RELEASE MEASURES****ENVIRONMENTAL PRECAUTIONS**

**WATER SPILL:** Keep material out of storm sewers and ditches which lead to waterways.

**GENERAL PROCEDURES:** WARNING. Flammable. Ventilate area of leak or spill. Remove all sources of ignition. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

**7. HANDLING AND STORAGE**

**GENERAL PROCEDURES:** Keep away from heat, sparks, and flame. Surfaces that are hot may ignite even liquid product in the absence of sparks or flame. Extinguish pilot lights, cigarettes and turn off other sources of ignition prior to use and until all vapors are gone.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN!

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****EXPOSURE GUIDELINES**

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)				
EXPOSURE LIMITS				
Chemical Name	Type		ppm	mg/m <sup>3</sup>
n-Heptane	OSHA PEL	TWA	500 %	2000
	ACGIH TLV	TWA	400 %	
		STEL	500	

**ENGINEERING CONTROLS:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits. Exhaust air may need to be cleaned by scrubbers or filters to reduce environmental contamination.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** Use chemical safety goggles and/or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.

**SKIN:** Wear resistant gloves such as: Poly Vinyl Chloride (PVC) or consult your safety equipment supplier. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**RESPIRATORY:** If exposure may or does exceed occupational exposure limits (Sec. 8) use a NIOSH approved respirator to prevent overexposure. In accord with 29 CFR 1910.134 use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors.

**PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

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**WORK HYGIENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before eating, drinking, smoking, or using the toilet.

**OTHER USE PRECAUTIONS:** May be harmful or fatal if swallowed. May irritate body tissues. Use with adequate ventilation. Avoid breathing vapor. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling.

**COMMENTS:** Use this material only in well ventilated areas

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Sweet odor.

**COLOR:** Clear

**pH:** Not Applicable

**PERCENT VOLATILE:** 100

**FLASH POINT AND METHOD:** (25°F)

**FLAMMABLE LIMITS:** 1 %Vol to 7 %Vol

**VAPOR PRESSURE:** 160 psi at (100°F)

**VAPOR DENSITY:** 3.4 (Air=1)

**BOILING POINT:** (208°F)

**MELTING POINT:** No data available.

**SOLUBILITY IN WATER:** Negligible

**EVAPORATION RATE:** 3.46

**DENSITY:** 6.242

**SPECIFIC GRAVITY:** 0.6 to 0.8

**MOLECULAR WEIGHT:** 100.23 g/mol

**(VOC):** 4.91 LBS./gal.

**10. STABILITY AND REACTIVITY**

**HAZARDOUS POLYMERIZATION:** Avoid heat, flame, and other sources of ignition.

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Avoid heat, sparks, flame and contact with strong oxidizing agents. Do not store or handle in aluminum equipment at temperatures above 120 deg. F.

**POSSIBILITY OF HAZARDOUS REACTIONS:** Keep away from heat, sparks, and flame. Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

**INCOMPATIBLE MATERIALS:** Acids and excessive heat.

**11. TOXICOLOGICAL INFORMATION**

**COMMENTS:** Poison. May be fatal or cause blindness, if swallowed. Cannot be made nonpoisonous.

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGICAL INFORMATION:** Avoid uncontrolled releases of this material. Where spills are possible, a comprehensive spill response plan should be developed and implemented.

**GENERAL COMMENTS:** Keep out of waterways.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted

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incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**EMPTY CONTAINER: KEEP OUT OF REACH OF CHILDREN!** Empty containers retain product residue and can be dangerous. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Do not pressurize, cut weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks static electricity, or other sources of ignition.

**RCRA/EPA WASTE INFORMATION:** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Heptanes

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** UN1206

**PACKING GROUP:** II

**NAERG:** 128

**LABEL:** Flammable liquid

**15. REGULATORY INFORMATION****UNITED STATES****SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**311/312 HEALTH CATEGORIES:** This product should be reported as an immediate (acute) health hazard, delayed (chronic) health hazard, and a fire hazard.

**313 REPORTABLE INGREDIENTS:** To the best of our knowledge, this product is not listed as a toxic chemical under Section 313 of SARA Title III.

**302/304 EMERGENCY PLANNING**

**EMERGENCY PLAN:** To the best of our knowledge, this product is not listed as an extremely hazardous substance.

**TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** Listed.

**GENERAL COMMENTS:** The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Updated SDS information and changed to new format.

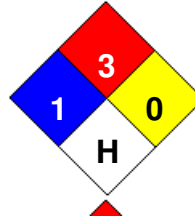
**PREPARED BY:** COMPLIANCE    **Date Revised:** 04/10/2019

**REVISION SUMMARY:** This SDS replaces the 04/10/2019 SDS. Revised: **Section 3:** .

## n-HEPTANE

## HMIS RATING

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	3
<b>PHYSICAL HAZARD</b>	0
<b>PERSONAL PROTECTION</b>	H

NFPA  
CODES

**NFPA STORAGE CLASSIFICATION:** These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

**HMIS RATINGS NOTES:** The HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in the SDS must be considered.

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