

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** n-Heptane 99% Technical

**Synonyms:** HEPTANE, n-Heptane, Heptan, Heptyl hydride, Dipropyl methane

**CAS Number:** 142-82-5

**Grade/Purity:** Technical

**Product Type:** Hydrocarbons

**Product Use:** Industrial, Manufacturing or Laboratory use

**Manufacturer/Supplier:** Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

**Information:** 512-365-6838 | [www.alliancechemical.com](http://www.alliancechemical.com)

**Emergency:** CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

H225	Highly Flammable liquid and vapor [Danger Flammable liquids]
H304	May be fatal if swallowed and enters airways [Danger Aspiration hazard]
H315	Causes skin irritation [Warning Skin corrosion/irritation]
H336	May cause drowsiness or dizziness [Warning Specific target organ toxicity, single exposure; Narcotic effects]
H400	Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]
H410	Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]

**Precautionary Statements:**

P210,	P233, P240, P241, P242, P243, P261, P264, P271, P273, P280, P301+P316, P302+P352, P303+P361+P353, P304+P340, P319, P321, P331, P332+P317, P362+P364, P370+P378, P391, P403+P233, P403+P235, P405, and P501
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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS #	FORMULA	MOLECULAR WEIGHT	CONCENTRATION
n-Heptane	142-82-5	C <sub>7</sub> H <sub>16</sub>	100.2 g/mol	99%

#### 4. FIRST-AID MEASURES

<b>Eyes</b>	Eye: IRRIGATE IMMEDIATELY - If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately.
<b>Skin</b>	Rinse and then wash skin with water and soap. Refer for medical attention if skin irritation occurs.
<b>Inhalation</b>	Breathing: RESPIRATORY SUPPORT - If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. If breathing has stopped, perform artificial respiration. Keep the affected person warm and at rest. Get medical attention as soon as possible.
<b>Ingestion</b>	Swallow: MEDICAL ATTENTION IMMEDIATELY - If this chemical has been swallowed, get medical attention immediately. (NIOSH, 2024)

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Media</b>	Alcohol-resistant foam, CO2, dry chemical powder. Water spray may be used to cool fire-exposed containers.
<b>Unsuitable Media</b>	Do not use a solid water stream — may scatter and spread fire.
<b>Protective Equipment</b>	Wear self-contained breathing apparatus and full protective clothing.
<b>Combustion Products</b>	May include carbon oxides and other toxic fumes. See Section 10.

#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
<b>Environmental</b>	Prevent leakage or spillage from entering drains, sewers, or waterways.
<b>Containment &amp; Cleanup</b>	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

#### 7. HANDLING AND STORAGE

<b>Safe Handling</b>	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
<b>Safe Storage</b>	Store in a cool, dry, well-ventilated area away from heat, sparks, and open flame. Keep away from: N-HEPTANE is incompatible with the following: Strong oxidizers (NIOSH, 2024).. Keep containers tightly closed. Ground and bond containers when transferring material.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

**Occupational Exposure Limits:**

AGENCY	EXPOSURE LIMIT
OSHA PEL	500.0 [ppm]
NIOSH REL	85 ppm (350 mg/m <sup>3</sup> )
IDLH	750.0 [ppm]

<b>Eyes</b>	Wear chemical safety goggles or face shield.
<b>Skin</b>	Wear chemical-resistant gloves and protective clothing.
<b>Inhalation</b>	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless, volatile liquid
Odor	Gasoline-like odor
pH	Not Available
Melting Point	-91°C (-132°F)
Boiling Point	98°C (208°F)
Flash Point	-4°C (25°F)
Vapor Pressure	37.49 mmHg at 70 °F (USCG, 1999)
Specific Gravity	0.684
Solubility	Insoluble in water, soluble in organic solvents
Molecular Formula	C <sub>7</sub> H <sub>16</sub>
Molecular Weight	100.2 g/mol

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	N-HEPTANE is incompatible with the following: Strong oxidizers (NIOSH, 2024).
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: LC50; Species: Carassius auratus (Goldfish); Concentration: 4 mg/L for 24 hr /Conditions of bioassay not specified in source examined/ [PubChem]
Persistence	Not Available
Bioaccumulation	Not Available
Mobility in Soil	Not Available

## 13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose of into drains or waterways.

## 14. TRANSPORT INFORMATION

US DOT	UN1206, HEPTANES, 3, PG II
IMDG	UN1206, HEPTANES, 3, PG II, Tunnel (D/E)
IATA/ICAO	UN1206, HEPTANES, 3, PG II Passenger: 5 L (PI 353); Cargo only: 60 L (PI 364)
Marine Pollutant	No

## 15. REGULATORY INFORMATION

<b>TSCA Inventory</b>	All ingredients are listed on the TSCA Active inventory.
<b>California Prop 65</b>	Refer to California Proposition 65 list for current status.
<b>SARA 311/312</b>	See Section 2 for hazard classifications.
<b>SARA 313</b>	Refer to EPA Toxic Release Inventory for current listing status.

## 16. OTHER INFORMATION

**Revision Date:** 02/10/2026

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