

■ SIGNAL WORD: DANGER H225: Highly flammable. H304: Aspiration hazard. H336: May cause drowsiness/dizziness. H411: Toxic to aquatic life with long-lasting effects.

SECTION 1: IDENTIFICATION

Product Name	N-Pentane
CAS Number	109-66-0
Synonyms	n-Pentane; Normal Pentane; Amyl Hydride; Pentane; UN1265
Product Use	Industrial solvent; extraction solvent; reference fuel; laboratory use
Restrictions	For professional/industrial use only.
Supplier	Cannagas Supply 97 Turnpike Rd, Westborough, MA 01581
Phone	877-710-1965
Email	Sales@canna-gas.com
Emergency Phone	CHEMTREC: 1-800-424-9300 (24-hour)
SDS Revision Date	March 2026

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification	Flammable Liquid Cat 2 (H225). Aspiration Hazard Cat 1 (H304). STOT SE Cat 3 (H336). Aquatic Chronic Cat 2 (H411).
Signal Word	DANGER
Hazard Statements	H225: Highly flammable liquid and vapor. H304: May be fatal if swallowed and enters airways. H336: May cause drowsiness or dizziness. H411: Toxic to aquatic life with long-lasting effects.
Precautionary – Prevention	P210: Keep from heat/sparks/flames. P260: Do not breathe vapors. P271: Use in well-ventilated area. P273: Avoid release to environment. P280: Wear PPE.
Precautionary – Response	P301+310: IF SWALLOWED — call poison center. Do NOT induce vomiting (aspiration hazard). P303+361+353: IF ON SKIN/HAIR — rinse with water. P304+340: IF INHALED — remove to fresh air. P370+378: Fire — use CO2/dry chemical.
Precautionary – Storage	P403+235: Store in well-ventilated, cool place.
Precautionary – Disposal	P501: Dispose in accordance with local/regional/national regulations.
Other Hazards	EXTREME FLAMMABILITY: Flash point -49°C (-56°F) — ignites well below room temperature. Vapors heavier than air — explosive mixtures possible at room temperature.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration	EC Number
n-Pentane	109-66-0	≥99%	203-692-4

All components on TSCA Inventory.

SECTION 4: FIRST-AID MEASURES

Inhalation	Remove to fresh air. If unconscious, provide artificial respiration. Seek medical attention.
Skin Contact	Remove contaminated clothing. Wash with soap and water.
Eye Contact	Rinse with water for at least 15 minutes. Seek medical attention.
Ingestion	Do NOT induce vomiting — ASPIRATION HAZARD. Call physician/poison control immediately.

Key Symptoms CNS depression (drowsiness, dizziness, headache). Aspiration causes chemical pneumonia.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	CO2, dry chemical, alcohol-resistant foam. Extremely flammable — eliminate ignition sources first.
Specific Hazards	EXTREMELY FLAMMABLE. Flash point -49°C (-56°F). Vapors heavier than air — may travel to distant ignition sources.
Protective Equipment	Self-contained breathing apparatus (SCBA) and full protective gear for structural firefighters.
Flash Point	-49°C (-56°F) — Closed Cup
Autoignition Temperature	260°C (500°F)
Flammable Limits (LEL/UEL)	LEL: 1.4% / UEL: 8.3% in air

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Explosion-proof equipment. Chemical-resistant gloves, chemical splash goggles. Eliminate all ignition sources.
Environmental Precautions	Do not allow to enter drains, sewers, surface or ground water.
Containment & Cleanup	Evacuate area. Eliminate ignition sources. Absorb with inert material. Ventilate thoroughly.

SECTION 7: HANDLING AND STORAGE

Safe Handling	Use in well-ventilated area away from all ignition sources. Ground equipment to prevent static. Avoid breathing vapors.
Safe Storage	Cool, well-ventilated area away from heat and ignition. Flammable storage cabinet.
Incompatibles	Strong oxidizers, strong acids.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	Limit Type	Value	Authority
n-Pentane	TWA	1,000 ppm (2,950 mg/m3)	OSHA PEL
n-Pentane	TWA	600 ppm	ACGIH TLV
n-Pentane	IDLH	1,500 ppm	NIOSH

Engineering Controls	Fume hood or local exhaust ventilation. Explosion-proof electrical equipment.
Eye/Face Protection	Chemical splash goggles.
Hand Protection	Appropriate protective gloves.
Body Protection	Lab coat or overalls.
Respiratory Protection	Organic vapor cartridge respirator above OEL.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Clear, colorless liquid	Density	0.626 g/mL at 20°C
Odor	Mild gasoline-like odor	Molecular Formula	C5H12 MW: 72.15 g/mol
Boiling Point	35.9°C (96.6°F) at 1 atm	Solubility	Practically insoluble in water (38.5 mg/L)
Flash Point	-49°C (-56°F) — Closed Cup	LEL / UEL	1.4% / 8.3% in air
Auto-ignition	260°C (500°F)	Vapor Density	2.49 (air = 1)
Vapor Pressure	573 hPa at 20°C	Log Kow	3.39

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Reacts with strong oxidizers.
Chemical Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	Heat, sparks, open flames, static discharge, strong oxidizers.
Incompatible Materials	Strong oxidizers, strong acids.
Hazardous Decomp. Products	Carbon monoxide, carbon dioxide on combustion.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure	Inhalation, skin contact, ingestion.
Acute Toxicity	LD50 oral (rat): 5,000 mg/kg. Low acute systemic toxicity but CNS depressant and aspiration hazard.
Skin/Eye Effects	Defatting of skin with repeated contact. Mild eye irritant.
Respiratory Effects	CNS depression — drowsiness, dizziness, headache at elevated concentrations (H336).
Carcinogenicity	Not classified as carcinogenic.
STOT – Single Exp.	STOT SE Cat 3 — H336: May cause drowsiness or dizziness.
STOT – Repeated Exp.	No specific classification.
Reproductive Toxicity	Not classified.
Chronic Effects	Prolonged repeated exposure may cause peripheral neuropathy (n-pentane is less neurotoxic than n-hexane).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	H411: Toxic to aquatic life with long-lasting effects. Log Kow 3.39 — moderate bioaccumulation potential.
Persistence/Degradability	Readily biodegradable (>80% in 28 days).
Bioaccumulative Potential	Moderate bioaccumulation potential.
Mobility in Soil	High mobility in soil and groundwater.
Other Adverse Effects	Avoid release to environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods	Dispose as flammable hazardous waste per 40 CFR 261.
Contaminated Packaging	Dispose in accordance with applicable regulations.

SECTION 14: TRANSPORT INFORMATION

	DOT (USA)	IATA (Air)	IMDG (Sea)
UN Number	UN1265	UN1265	UN1265
Proper Ship. Name	Pentanes	Pentanes	Pentanes
Hazard Class	Class 3, PG II	Class 3	Class 3
Packing Group	II	II	II

SECTION 15: REGULATORY INFORMATION

OSHA HazCom	Classified as Hazardous per 29 CFR 1910.1200.
SARA 311/312	Acute Health: Yes Chronic Health: No Fire: Yes Reactivity: No
CERCLA	No reportable quantity.
TSCA	All components listed on US TSCA Inventory.
California Prop. 65	Not listed.
Canadian DSL	All components listed on Canadian DSL Inventory.

SECTION 16: OTHER INFORMATION

Issue Date	March 2026
Version	1.0
Prepared By	Cannagas Supply
Key Sources	GHS Purple Book Rev. 9; OSHA HazCom 2012; NIOSH Pocket Guide; ACGIH TLVs.

DISCLAIMER: The information in this Safety Data Sheet is believed to be accurate and represents the best information currently available to Cannagas Supply. This SDS is provided in good faith without warranty of any kind. Users are responsible for determining suitability of this product for their specific application and for compliance with all applicable laws and regulations.