

Hexanes (primarily n-hexane) is a highly flammable non-polar solvent widely used in extraction and laboratory applications. **CRITICAL HEALTH CONCERN:** n-hexane causes peripheral neuropathy (nerve damage) and is a suspected reproductive toxin. These chronic effects can occur with repeated exposure even at concentrations below the OSHA PEL. The ACGIH TLV (50 ppm) is 10x more stringent than the OSHA PEL (500 ppm) due to neurotoxic risk. Consider n-heptane as a safer alternative for applications requiring repeated exposure.

### SECTION 1: PRODUCT IDENTIFICATION

<b>Product Name</b>	Hexanes
<b>CAS Number</b>	110-54-3 (n-Hexane component)
<b>Molecular Formula</b>	C6H14   MW: 86.18 g/mol
<b>GHS Signal Word</b>	<b>DANGER</b>
<b>Key Hazards</b>	H225: Highly flammable. H304: Aspiration hazard. H315: Skin irritant. H336: CNS effects. H361fd: Suspected reproductive toxin. H373: STOT RE (peripheral neuropathy). H411: Aquatic toxicity.
<b>UN Number</b>	UN1208
<b>DOT Classification</b>	Class 3, PG II
<b>Supplier</b>	Cannagas Supply   97 Turnpike Rd, Westborough, MA 01581 877-710-1965   Sales@canna-gas.com

### SECTION 2: PHYSICAL & CHEMICAL PROPERTIES

<b>Physical State</b>	Clear, colorless liquid	<b>Density</b>	0.660 g/mL at 20°C
<b>Boiling Point</b>	68.7°C (155.7°F)	<b>Solubility</b>	Practically insoluble (13 mg/L)
<b>Flash Point</b>	-22°C (-8°F) — Closed Cup	<b>Vapor Density</b>	2.97 (air=1)
<b>Auto-ignition</b>	225°C (437°F)	<b>Log Kow</b>	3.90
<b>Vapor Pressure</b>	151 hPa at 20°C	<b>SARA 313</b>	Listed
<b>LEL / UEL</b>	1.2% / 7.5% in air	<b>Prop. 65</b>	Reproductive harm — n-hexane

### SECTION 3: APPLICATIONS & USAGE

<b>Extraction Solvent</b>	Non-polar extraction solvent for oils, fats, and lipids. Common in food industry (seed oil extraction).
<b>Laboratory Use</b>	Mobile phase for normal-phase HPLC and thin-layer chromatography.
<b>Industrial Degreasing</b>	Effective metal degreaser (note: occupational exposure controls critical).
<b>Safer Alternative</b>	<b>STRONGLY CONSIDER</b> n-heptane as a safer alternative where repeated or prolonged exposure is expected — n-heptane lacks hexane's neurotoxic/reproductive hazard.
<b>Exposure Controls</b>	ACGIH recommends 50 ppm TLV (SKIN notation). Engineering controls and PPE essential for regular use.

### SECTION 4: STORAGE & HANDLING

<b>Storage</b>	Store in sealed containers in a cool, dry, well-ventilated area in a flammable storage cabinet. Keep away from heat, sparks, and ignition sources.
<b>Containers</b>	Compatible with stainless steel, glass. Avoid copper, aluminum alloys for long-term storage.
<b>Handling</b>	Use in well-ventilated area or fume hood. Eliminate ignition sources. Ground/bond containers during transfer to prevent static.
<b>Shelf Life</b>	Minimum 2 years in original sealed containers stored per above conditions.

### SECTION 5: SAFETY SUMMARY

■ **SAFETY NOTE: NEUROTOXIC HAZARD:** n-Hexane causes peripheral neuropathy (nerve damage) and is a suspected reproductive toxin (H361fd, H373). Chronic effects can be irreversible. The ACGIH TLV is 50 ppm — far lower than OSHA PEL of 500 ppm. Hexane absorbs through skin (SKIN notation). Consider n-heptane as a safer alternative for regular-use applications.

<b>GHS Signal Word</b>	DANGER
<b>Key Hazards</b>	H225: Highly flammable. H304: Aspiration hazard. H315: Skin irritant. H336: CNS effects. H361fd: Suspected reproductive toxin. H373: STOT RE (peripheral neuropathy). H411: Aquatic toxicity.
<b>DOT Classification</b>	Class 3, PG II
<b>SDS Reference</b>	Full SDS available. CHEMTREC: 1-800-424-9300.

**DISCLAIMER:** The information provided in this Technical Data Sheet is based on data believed to be accurate as of the issue date. Cannagas Supply makes no warranty regarding fitness for a particular purpose or accuracy of the information herein. Users are responsible for determining suitability for their specific application. Always refer to the Safety Data Sheet (SDS) for complete safety and regulatory information.