

Section 1. Product and Company Identification

**Product Name** Hexanol  
**CAS Number** 111-27-3

**Parchem - fine & specialty chemicals**  
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Section 2. Hazards Identification

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

Flammable liquids (Category 3), H226  
Acute toxicity, Oral (Category 4), H302  
Acute toxicity, Dermal (Category 4), H312  
Eye irritation (Category 2A), H319  
Acute aquatic toxicity (Category 3), H402

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

H226 Flammable liquid and vapor.  
H302 + H312 Harmful if swallowed or in contact with skin  
H319 Causes serious eye irritation.  
H402 Harmful to aquatic life.

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



- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTER or doctor/ physician if you feel unwell.
- P322 Specific measures (see supplemental first aid instructions on this label).
- P330 Rinse mouth.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Acute Health Effects:** Hazardous in case of skin contact (irritant) or eye contact (irritant). Slightly hazardous in case of skin contact (permeator), ingestion, or inhalation.

**Potential Chronic Health Effects**

**Carcinogenic Effects:** Not available.

**Mutagenic Effects:** Not available.

**Teratogenic Effects:** Not available.

**Developmental Toxicity:** Not available.

The substance is toxic to central nervous system (CNS).

The substance may be toxic to peripheral nervous system, upper respiratory tract, skin, eyes.

Repeated or prolonged exposure to the substance can produce target organs damage.

Section 3. Composition / Information on Ingredients

<b>Common Name</b>	Hexanol
<b>Synonym(s)</b>	Hexyl Alcohol; 1-Hexanol; Amycarbinol; Caproyl alcohol; n-Hexanol; n-Hexyl alcohol; Pentylcarbinol
<b>Formula</b>	C <sub>6</sub> H <sub>14</sub> O
<b>CAS Number</b>	111-27-3

COMPONENT	CAS NUMBER	CONCENTRATION
Hexanol	111-27-3	100% wt.

#### Section 4. First Aid Measures

**Eye Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt, or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. **WARNING:** It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek medical attention.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.

**Serious Ingestion:** Not available

#### Section 5. Firefighting Measures

**Flammability of the Product:** Flammable

**Auto-Ignition Temperature:** 293°C (559.4°F) - 304°C (580°F)

**Flash point (closed cup):** 60°C (140°F) - 63°C (145°F).

**Flash point (open cup):** 73.9°C (165°F).

**Flammable Limits:** LOWER: 1.2% UPPER: 7.7%

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>).

**Fire Hazards in Presence of Various Substances:** Flammable in presence of open flames and sparks, of heat.

#### Explosion Hazards in Presence of Various Substances

**Risks of explosion of the product in presence of mechanical impact:** Not available.

**Risks of explosion of the product in presence of static discharge:** Not available.

Slightly explosive in presence of heat.

#### Fire Fighting Media and Instructions

Flammable liquid, soluble or dispersed in water.

**Small Fire:** Use DRY chemical powder.

**Large Fire:** Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.



**Special Remarks on Fire Hazards:** Vapors may form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back.

**Special Remarks on Explosion Hazards:** Vapors may form explosive mixtures with air.

#### Section 6. Accidental Release Measures

**Small Spill:** Absorb with an inert material and put the spilled material in an appropriate waste disposal.

**Large Spill:** Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.

#### Section 7. Handling and Storage

**Precautions:** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents.

**Storage:** Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

#### Section 8. Exposure Controls / Personal Protection

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Splash goggles. Lab coat. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

**Personal Protection in case of Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

#### Exposure Limits

**TWA:** 40 ppm from AIHA [United States]

Consult local authorities for acceptable exposure limits.

#### Section 9. Physical and Chemical Properties

**Physical state and appearance:** Liquid

**Odor:** Sweetish. Characteristic. Fruity. Fatty

**Taste:** Fruity. Fatty. Aromatic

**Color:** Clear and colorless

**Molecular Weight:** 102.17 g/mol



**pH (1% soln/water):** Not available  
**Boiling Point:** 155 - 158°C  
**Melting Point:** -52°C to -44.6°C  
**Critical Temperature:** 338.2°C (640.8°F)  
**Specific Gravity:** 0.81 - 0.82 (Water = 1)  
**Vapor Pressure:** 0.1 kPa (20°C)  
**Vapor Density:** 3.5 (Air = 1)  
**Volatility:** Not available  
**Odor Threshold:** 0.09 ppm  
**Water/Oil Dist. Coeff.:** The product is more soluble in oil; log (oil/water) = 2  
**Ionicity (in Water):** Not available

#### Solubility

Soluble in acetone.  
Very slightly soluble in cold water.  
Soluble in alcohol, chloroform.  
Miscible with ether, benzene.  
Solubility in Water: 5900 mg/l (25°C)

#### Section 10. Stability and Reactivity

**Stability:** Product is stable  
**Instability Temperature:** Not available  
**Conditions of Instability:** Heat, ignition sources, incompatible materials  
**Incompatibility with various substances:** Reactive with oxidizing agents  
**Corrosivity:** Non-corrosive in presence of glass  
**Special Remarks on Reactivity:** Not available  
**Special Remarks on Corrosivity:** Not available  
**Polymerization:** Will not occur

#### Section 11. Toxicological Information

**Routes of Entry:** Absorbed through skin. Eye contact. Inhalation. Ingestion.

#### Toxicity to Animals

**Acute oral toxicity (LD50):** 720 - 4420 mg/kg [Rat].  
**Acute dermal toxicity (LD50):** 3100 mg/kg [Rabbit].  
**Acute toxicity of the vapor (LC50):** > 1060 6 hours [Rat]. >21,000 mg/m<sup>3</sup> 1 hour [Rat]  
**Chronic Effects on Humans:** Causes damage to the following organs: central nervous system (CNS). May cause damage to the following organs: peripheral nervous system, upper respiratory tract, skin, eyes.  
**Other Toxic Effects on Humans:** Hazardous in case of skin contact (irritant). Slightly hazardous in case of skin contact (permeator), of ingestion, of inhalation.  
Special Remarks on Toxicity to Animals: Lethal Dose/Conc 50% Kill:



LD50[Rabbit] - Route: Skin; Dose: 3100  $\mu$ l/kg

**Special Remarks on Chronic Effects on Humans:** Not available

**Special Remarks on other Toxic Effects on Humans**

**Acute Potential Health Effects**

**Skin:** Causes mild to moderate skin irritation. It may be absorbed through the skin and cause systemic effects (signs of intoxication)

**Eyes:** Causes severe eye irritation. May cause temporary corneal injury (burns) with recovery within 48 hours.

**Inhalation:** Causes respiratory tract irritation. Inhalation of high concentrations can cause central nervous system effects characterized by nausea, headache, dizziness, confusion, muscle weakness, tremor, ataxia, unconsciousness, coma.

**Ingestion:** May be harmful if swallowed. May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea. May affect the liver, blood, kidneys.

**Chronic Potential Health Effects**

**Inhalation:** Prolonged or repeated exposure can affect behavior/central nervous system and may produce a narcotic effect.

**Ingestion:** Prolonged or repeated ingestion may affect behavior/central nervous system/peripheral nervous system (tremor, ataxia, sensory change involving peripheral nerve, and other Central Nervous system effects), blood

Section 12. Ecological Information

**Ecotoxicity:** Not available

**BOD5 and COD:** Not available

**Products of Biodegradation:** Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The product of degradation are less toxic the

**Special Remarks on the Products of Biodegradation:** Not available

Section 13. Disposal Considerations

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

Section 14. Transport Information

**DOT Classification**

**CLASS 3:** Flammable liquid.

**Identification:** UNNA2282 Hexanol PG III

**Special Precautions for Transport:** Not available.



Section 15. Regulatory Information

**Federal and State Regulations**

**Pennsylvania RTK:** Hexanol

**New Jersey:** Hexanol

**TSCA 8(b) Inventory:** Hexanol

**California Proposition 65 Warnings**

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: No products were found.

**California prop. 65:** This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: No products were found.

**Other Regulations**

**OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**EINECS:** This product is on the European Inventory of Existing Commercial Chemical Substances (EINECS No. 203-852-3).

**Canada:** Listed on Canadian Domestic Substance List (DSL).

**China:** Listed on National Inventory.

**Japan:** Listed on National Inventory (ENCS).

**Korea:** Listed on National Inventory (KECI).

**Philippines:** Listed on National Inventory (PICCS).

**Australia:** Listed on AICS.

**Other Classifications**

**WHMIS (Canada)**

**CLASS B-3:** Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

**CLASS D-2B:** Material causing other toxic effects (Toxic).

**DSCL (EEC)**

R22 - Harmful if swallowed

S24/25 - Avoid contact with skin and eyes

**HMIS Rating**

**Health:** 2

**Flammability:** 2

**Reactivity:** 0

**Personal Protection:** H



**NFPA Rating**

**Health:** 3

**Flammability:** 2

**Reactivity:** 0

**Protective Equipment:** Gloves; Lab coat; Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate; Splash goggles.

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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