



## SAFETY DATA SHEET

### SECTION 01 - IDENTIFICATION

<b>Product Identifier</b>	1-HEPTANOL
<b>Other identification (Chemical name, Commercial name, Synonymous)</b>	HEPTYL ALCOHOL; n-HEPTYL ALCOHOL; ALCOOL n-HEPTYLIQUE PRIMAIRE; ENANTHIC ALCOHOL; 1-HYDROXYHEPTANE; ALCOOL HEPTYLIQUE NORMAL
<b>Product code</b>	HP-0102
<b>Chemical formula</b>	$\text{CH}_3(\text{CH}_2)_6\text{OH}$
<b>Molar weight</b>	116.2
<b>Recommended use and Restrictions on use</b>	For laboratory, school, commercial or industrial use. Not for medical or household use. Do not use for medical, food or household purposes.
<b>Supplier</b>	LABORATOIRE MAT 610, rue Adanac Québec Québec G1C 7B7 418-660-8666 Mon-Fri 8h-16h www.labmat.com labmat@labmat.com
<b>Emergency phone</b>	418-660-8666 Mon-Fri 8h-16h CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
<b>Date SDS</b>	2025-06-06

## SECTION 02 - HAZARDS IDENTIFICATION

### WHIMS CANADA

- Flammable liquids - category 4
- Serious eye damage/eye irritation - Eye irritation - category 2

### PICTOGRAMS



### Signal Word

ATTENTION

### Hazards statements (H)

- Combustible liquid
- Causes serious eye irritation

### Precautionary statements (P)

- Keep away from heat, sparks, open flames, hot surfaces. — No smoking.
- Wear protective gloves (Nitrile, butyl, laminated material (PE/EVOH)), protective clothing and eye and face protection.
- In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
- Store in a well ventilated place.
- Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
- Wash thoroughly after handling.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists get medical attention.

### Other dangers

NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Significant; 4=Extreme)

**Health** 2  
**Fire** 2  
**Reactivity** 0  
**Special danger**

## SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	No. CAS	% Weight
1-Heptanol	111-70-6	<=100

## SECTION 04 - FIRST AID MEASURE

<b>Eye contact</b>	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
<b>Skin contact</b>	Wash skin with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
<b>Ingestion</b>	Consult a physician. If the person is conscious, give water to drink. Never give anything by mouth to an unconscious person.
<b>Most important symptoms and effects (acute and delayed)</b>	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Cough. Dyspnoea. Dizziness. Neurological disorders. Headaches. Nausea and vomiting. Chest pain. Ref. section 11.
<b>Immediate medical attention and special treatment, if necessary</b>	Treat according to symptoms. Show this sheet to the attending physician.

## SECTION 05 - FIREFIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<b>Unsuitable extinguishing media</b>	Do not use a jet of water.
<b>Combustion products</b>	Hazardous combustion products formed under fire conditions: Carbon oxides.
<b>Specific hazards of the dangerous product</b>	Highly concentrated vapors in the air can ignite or even explode if exposed to an intense ignition source. Keep the product and empty containers away from heat and ignition sources. May react violently with incompatible products (Ref Section 10).
<b>Special protective equipment and precautions for firefighters</b>	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## SECTION 06 - ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency measures</b>	Evacuate personnel to safe areas. Cut off all sources of ignition. Use anti-spark tools and anti-explosion equipment. Avoid the accumulation of charges electrostatic. When handling, wear appropriate safety equipment (reference Section 8 for protective equipment to be used). Ensure a good ventilation. Use NIOSH cartridge respiratory protection if necessary or for larger spills. Beware of vapors accumulating to form explosive concentrations.
<b>Methods and materials for containment and cleaning up</b>	Absorb the product with sand or vermiculite. Dilute residues with water, clean and rinse. Dispose of residues in a container for disposal of hazardous materials. Discharge into the environment must be avoided.

## SECTION 07 - HANDLING AND STORAGE

**Conditions for safe storage** Keep container tightly closed in a dry, well-ventilated place. Keep container tightly closed and store away from heat, moisture, and incompatible products (ref. section 10). Keep away from sources of ignition - No smoking. Take measures to prevent the accumulation of electrostatic charges. Protect from the sun's rays.

**Methods of handling** Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation. Wear personal protective equipment (ref. section 8) when handling. Always ensure good ventilation. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Apply the usual standard hygiene rules: Wash your hands after use. Do not eat or drink during use.

## SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### WORKPLACE CONTROL PARAMETERS

Component	CAS-No.	Value
1-HEPTANOL	111-70-6	No occupational exposure limits established by region-specific regulators - Quebec, Alberta, Ontario, British Columbia.

**Respiratory** If permitted levels are exceeded, use NIOSH cartridge respiratory protection, or an air-supplied respirator.

**Gloves** Handle with protective gloves. Suggested material: Nitrile. Butyl. Laminated material (PE/EVOH) The type, thickness and length of the glove must be chosen according to the use, the concentration of the product, as well as the duration of use. Replace gloves regularly for better protection.

**Eyes** Safety goggles with safety shutters.

**Shoes** Use safety shoes.

**Clothes** Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Engineering control** Use fan. Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

## SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid
<b>Color</b>	Clear and Colorless
<b>Odour</b>	Data not available
<b>Odour threshold</b>	Data not available
<b>Melting point and freezing point</b>	Data not available
<b>Boiling point</b>	Data not available
<b>Flammability</b>	Yes
<b>Lower flammable / Explosive limit</b>	Data not available
<b>Upper flammable / Explosive limit</b>	Data not available
<b>Flash point</b>	Data not available
<b>Auto-ignition temperature</b>	350 °C
<b>Decomposition temperature</b>	Data not available
<b>pH</b>	Data not available
<b>Kinematic viscosity</b>	Data not available
<b>Solubility</b>	Very slightly soluble in water. Miscible with alcohol and ether.
<b>Partition coefficient water/n-octanol</b>	log Pow: 2.2 à 20 °C
<b>Vapour pressure</b>	0.7 hPa à 20 °C
<b>Relative density</b>	0.822 at 25°C
<b>Vapour density</b>	3.9 (Air = 1.0)
<b>Particle characteristics</b>	Not applicable

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Flammable product, may ignite with source of ignition, if temperature above flash point. May react violently with incompatible substances.
<b>Chemical stability</b>	Sensitive to heat.
<b>Possibility of hazardous reactions</b>	Flammable liquid and vapours. Vapours can form explosive mixtures with air when heated. May react violently with incompatible substances.
<b>Conditions to avoid</b>	Heat, flames and sparks. Avoid the build-up of static electricity. Avoid contact with incompatible materials.
<b>Incompatible materials</b>	Oxydants. Acid chlorides. Acid anhydrides. Heat and humidity.
<b>Hazardous decomposition products</b>	Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ).

## SECTION 11 - TOXICOLOGICAL INFORMATION

### 1-HEPTANOL

<b>Routes of exposure</b>	Ingestion, inhalation, skin and eye contact.
<b>Acute exposition effects / symptoms:</b>	By exposure route below.
- Eyes	Irritation. Inflammation of the conjunctiva.
- Skin	Irritation. Dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders. Chest pain. Cough. Dyspnoea. Headaches. Nausea and vomiting. Dizziness. Drowsiness.
<b>Acute toxicity (Ingestion)</b>	Mucous membrane irritation. Gastrointestinal disorders. Damage to the liver. Cramps. Diarrhea. Headaches. Dizziness. Sweating, Salivation. Nausea and vomiting. Convulsions.
<b>Chronic exposure effects / symptoms</b>	Burning sensation. Dermatitis. Conjunctivitis. Chest pain. Cough. Dyspnoea. Nervous disorders. Dizziness. Laryngitis. Headache. Drowsiness. Confusion. Irritability. Muscle weakness. Weight loss. Loss of appetite. Nausea and vomiting.
<b>DL50 (specify species and route of entry)</b>	LD50 Oral - >5000mg/kg. LD50 Dermal - Rabbit - >2000mg/kg.
<b>CL50 (specify species and route of entry)</b>	LC50 Inhalation - Mouse - 2h - 6,600 mg/m3.

## SECTION 12 - ECOLOGICAL INFORMATION

### 1-HEPTANOL

<b>Ecotoxicity</b>	Toxicity to fish: Static test - LC50 - Pimephales promelas (Bighead Minnow). - 37.9 mg/l - 96 h. Toxicity to daphnia and other aquatic invertebrates: Immobilization EC50 - Daphnia magna (Water flea): 84 mg/l - 48 h.
<b>Persistence and degradability</b>	Biodegradability aerobic - Duration of exposure 28 days - 84%. Readily biodegradable
<b>Bioaccumulative potential</b>	Data not available.
<b>Mobility in soil</b>	Data not available.
<b>Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste Disposal Method</b>	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
<b>Contaminated Packaging</b>	Dispose of as unused product.

## SECTION 14 - TRANSPORT INFORMATION

UN Number N/R

UN Proper shipping name

Transport hazard class(es)

Packing group

Limited quantity index

ERAP Index

Special precautions

## SECTION 15 - REGULATORY INFORMATION

**WHIMS CANADA** - Flammable liquids - category 4  
- Serious eye damage/eye irritation - Eye irritation - category 2

## SECTION 16 - OTHER INFORMATION

CNESST: Commission des normes, de l'équité et de la santé et sécurité au travail

NIH: National institute of health (U.S. National Library of Medicine)

ECHA: Agence Européenne de Chimie

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

VECD: Valeur d'exposition courte durée

VEMP: Valeur d'exposition moyenne pondérée

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TLV : Threshold limit value

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

RSST: Règlement sur la santé et sécurité au travail (Québec)

INRS: l'Institut national de recherche et de sécurité pour la prévention des accidents du travail et des maladies professionnelles (France)

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. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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