



## MATERIAL SAFETY DATA SHEET

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** 1-Hexanol

**Catalog Numbers:**

H 045

**Synonyms:**

Amylcarbinol; Caproyl alcohol; 1-Hydroxyhexane; Pentylcarbinol;  
N-Hexanol.

**Company Identification:**

LEONID CHEMICALS

62/A-2 2nd Stage, Industrial Suburb

Yeshwanthpur, Bangalore -22, INDIA

Ph- +91-80-23378354

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	111-27-3
Chemical Name	:	1-Hexanol
%	:	100 %
EINECS#	:	203-852-3
Hazard Symbols	:	XN
Risk Phrases	:	22

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful if swallowed.

#### Potential Health Effects

Eye:

Causes severe eye irritation. May result in corneal injury.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful if swallowed.

Inhalation:

Inhalation of high concentrations may cause central nervous system effects characterized by nausea, headache, dizziness, unconsciousness and coma. May cause respiratory tract irritation.

Chronic:

Prolonged exposure may produce a narcotic effect.



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## SECTION 4 - FIRST AID MEASURES

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**Eyes:**

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Skin:**

Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Ingestion:**

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

**Inhalation:**

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:**

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## SECTION 5 - FIRE FIGHTING MEASURES

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**General Information:**

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Combustible liquid. Vapors may be heavier than air. They can spread along the ground and collect in low or confined areas. Containers may explode when heated.

**Extinguishing Media:**

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam. Use water spray to cool fire-exposed containers.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Avoid runoff into storm sewers and ditches which lead to waterways. Clean up spills immediately, observing precautions in the Protective Equipment section. Scoop up with a nonsparking tool, then place into a suitable container for disposal. Remove all sources of ignition. Provide ventilation.

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## SECTION 7 - HANDLING AND STORAGE

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**Handling:**

Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not get on skin or in eyes. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

**Storage:**

Keep away from heat, sparks, and flame. Keep away from sources of ignition. Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

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**SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

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**Engineering Controls:**

Use adequate ventilation to keep airborne concentrations low.

**Personal Protective Equipment****Eyes:**

Not available.

**Skin:**

Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**

Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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Physical State	: Liquid
Color	: colorless
Odor	: None reported.
PH	: Not available.
Vapor Pressure	: 1 mm Hg @ 24.4 C
Viscosity	: 5.3mPas @ 20C
Boiling Point	: 157 deg C
Freezing/Melting Point	: -52 deg C
Autoignition Temperature	: 293 deg C ( 559.40 deg F)
Flash Point	: 62 deg C ( 143.60 deg F)
Explosion Limits, lower	: 1.2.
Explosion Limits, upper	: 7.7
Decomposition Temperature	: Not available.
Solubility in water	: Insoluble in water.

Specific Gravity/Density : 0.82  
Molecular Formula : C6H14O  
Molecular Weight : 102.0974

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## SECTION 10 - STABILITY AND REACTIVITY

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### Chemical Stability:

Stable under normal temperatures and pressures.

### Conditions to Avoid:

High temperatures, mechanical shock, incompatible materials, ignition sources, excess heat.

### Incompatibilities with Other Materials:

Oxidizing agents

### Hazardous Decomposition Products:

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Hazardous Polymerization: Has not been reported.

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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### RTECS#:

CAS# 111-27-3: MQ4025000

### LD50/LC50:

CAS# 111-27-3: Oral, mouse: LD50 = 1950 mg/kg; Oral, mouse: LD50 = 1950 mg/kg; Oral, rat: LD50 = 720 mg/kg; Oral, rat: LD50 = 710 mg/kg; Skin, rabbit: LD50 = 3100 uL/kg.

### Carcinogenicity:

1-Hexanol -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

## SECTION 12 - ECOLOGICAL INFORMATION

### Other

No information available.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

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## SECTION 14 - TRANSPORT INFORMATION

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### IATA

Shipping Name: HEXANOLS

Hazard Class: 3

UN Number: 2282  
Packing Group: III  
**IMO**  
Shipping Name: HEXANOLS  
Hazard Class: 3  
UN Number: 2282  
Packing Group: III  
**RID/ADR**  
Shipping Name: HEXANOLS  
Hazard Class: 3  
UN Number: 2282  
Packing group: III

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## SECTION 15 - REGULATORY INFORMATION

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### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 22 Harmful if swallowed.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 111-27-3: 1

### United Kingdom Occupational Exposure Limits

### United Kingdom Maximum Exposure Limits

### Canada

CAS# 111-27-3 is listed on Canada's DSL List.

CAS# 111-27-3 is listed on Canada's Ingredient Disclosure List.

### Exposure Limits

### US FEDERAL

TSCA

CAS# 111-27-3 is listed on the TSCA inventory.

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## SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 6/23/2004 Revision #0 Date: Original.

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