

SAFETY DATA SHEET

Octanol, 1-

This SDS is valid for all grades and catalog #s

1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

Product Identifier: High Purity Chemicals
Synonyms: Octyl Alcohol; Caprylic alcohol; Heptyl Carbinol; 1-Hydroxy-octane;
Ethyl amyl carbinol; Octilin; Amyl ethyl carbinol
Other means of identification: CAS No. 111-87-5
EINECS No. 203-917-6

Recommended use of the chemical and restrictions on use:

Supplier Details:

Pharmco Products, Inc.
58 Vale Road, Brookfield,
CT 06804, USA.
Tel: 203.740.3471
Fax: 203.740.3481
CCN17213

Pharmco Products, Inc.
1101 Isaac Shelby Drive, Shelbyville,
KY 40065, USA.
Tel: 502.232.7600
Fax: 502.633.6100
CCN17213

Emergency Contact: CHEMTREC: 1.800.424.9300 (USA) / +1.703.527.3887 (International)

2. HAZARDS IDENTIFICATION

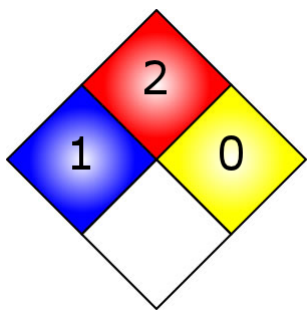
OSHA Hazards:

Combustible liquid, Irritant, Target organ effect

Target Organs:

Kidney, Liver, Nerves

NFPA



GHS label elements, including precautionary statements



Signal Word:

WARNING!

Hazard statement(s)

H412 Harmful to aquatic life with long lasting effects.
H319 Causes serious eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
P280 Wear protective gloves and eye and face protection.
P273 Avoid release to the environment.
P264 Wash hands thoroughly after handling.
P501 Dispose of contents and container to an approved waste disposal plant.
P337 + P313 If eye irritation persists: Get medical attention.

GHS Classification(s)

Chronic aquatic toxicity (Category 3)
Eye irritation (Category 2)

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Causes irritation, redness, and pain.
Ingestion	Large oral doses may cause irritation to the gastrointestinal tract.
Inhalation	Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache.
Skin	A mild skin irritant which causes loss of natural oils. May be a route of absorption into the body.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

**Product Information: 203.740.3471 Emergency Assistance (CHEMTREC): 1.800.424.9300 (USA)
+1.703.527.3887 (INT)**

Chemical identity:	1-Octanol
Common name / Synonym:	Octyl Alcohol; Caprylic alcohol; Heptyl Carbinol; 1-Hydroxy-octane; Ethyl amyl carbinol; Octilin; Amyl ethyl carbinol
CAS number:	111-87-5
EINECS number:	203-917-6
ICSC number:	1030
RTECS #:	RH6550000

% Weight	Material	CAS
100	1-Octanol	111-87-5

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. Cool all affected containers with flooding quantities of water.

Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep

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unopened containers cool by spraying with water.

Flammable Properties

Classification

OSHA/NFPA Class IIIA Flammable Liquid.

Flash point

81 °C (178 °F) - closed cup

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

Methods and materials for containment and cleaning up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

7. HANDLING AND STORAGE

Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

Occupational Exposure Limits

Component	Source	Type	Value	Note
1-Octanol	US (WEEL)	TWA	50 ppm	USA Workplace Environmental Exposure Levels

Appropriate engineering controls:

Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

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Individual protection measures, such as personal protective equipment:

Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

Skin and body protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Liquid. Colorless, clear.
Freezing point	-15 °C (5 °F)
Initial boiling point and boiling range	194 °C (381 °F)
Flash point	81 °C (178 °F) - closed cup
Upper / Lower flammability or explosive limits	0.8% (V) (Lower)
Vapor pressure	0.19 hPa (0.14 mmHg) at 25 °C (77 °F)
Vapor Density	4.5
Relative Density	0.827 g/cm ³ at 25 °C (77 °F)
Formula (1-OCTANOL)	C ₈ H ₁₈ O
Molecular Weight (1-OCTANOL)	130.23 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No data available

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Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames, and sparks.
Incompatible materials	Acids, Acid chlorides, oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

11. TOXICOLOGICAL INFORMATION

- 1-Octanol 111-87-5

Product Summary:

Laboratory tests have shown mutagenic effects. No data available for the teratogenic or reproductive effects of the product.

Acute Toxicity:

LD50 (Oral)	Rat	> 3,200 mg/kg	
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Irritation:

Eyes

Rabbit - moderate eye irritation - 24 hours

Skin

Rabbit - skin irritation

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other Hazards

Organ	Description
Eyes	Causes irritation, redness, and pain.
Ingestion	Large oral doses may cause irritation to the gastrointestinal tract.
Inhalation	Inhalation of vapors irritates the respiratory tract. May cause coughing, dizziness, dullness, and headache.
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12. ECOLOGICAL INFORMATION

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Ecotoxicity (aquatic and terrestrial, where available):

Toxicity to Algae (1-OCTANOL)

EC50 / 48 hours / Green Algae - 14.0 mg/L

Persistence and degradability:

No data available

Bioaccumulative potential:

Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options.

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	Not a dangerous good.
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IMDG

UN-Number: Not a dangerous good.

Marine pollutant: No

IATA

UN-Number: Not a dangerous good.

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

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OSHA Hazards

Combustible liquid, Irritant, Target organ effect

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Pennsylvania Right To Know Components

1-Octanol CAS-No. 111-87-5 Revision Date 1989-08-11

New Jersey Right To Know Components

1-Octanol CAS-No. 111-87-5 Revision Date 1989-08-11

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS

Disclaimer

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