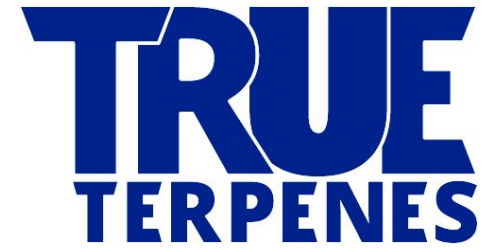


# Safety Data Sheet

Linalool

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## 1. Product and Company Information

<b>Product Name</b>	Linalool
<b>CAS Number(s)</b>	78-70-6
<b>Company</b>	True Terpenes (888) 954-8550 TrueTerpenes.com
<b>Emergency Contact</b>	Poison Control Help Line: 1 (800) 222-1222

## 2. Hazard(s) Identification

<b>Physical Hazards</b>	Flammable liquids	Category 4
<b>Health Hazards</b>	Acute toxicity, oral	Category 5
	Acute toxicity, dermal	Category 4
	Skin corrosion / irritation	Category 2
	Serious eye damage / eye irritation	Category 2A
<b>Environmental Hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 3

### Label Elements



**Signal Word** Warning

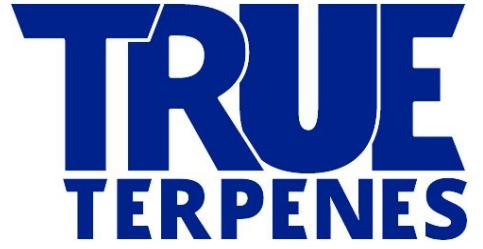
### Hazard Statement(s)

H227	Combustible liquid.
H303	May be harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H315 + H320	Causes skin and eye irritation.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

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## Precautionary Statement(s)

P210	Keep away from heat / sparks / open flames / hot surfaces. No smoking.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves / protective clothing / eye protection / face protection.

## Response

P302 + P352	IF ON SKIN: Wash with plenty of water.
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 / doctor if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice / attention.
P337 + P313	If eye irritation persists: Get medical advice / attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.

## Storage

P403 + P235	Store in a well-ventilated place. Keep cool.
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## Disposal

P501	Dispose of contents / container in accordance with local / regional / national / international regulations.
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## 3. Ingredient Composition and Classification

Chemical Name	Common Name and Synonyms	CAS Number	Formula	Molecular Weight
LINALOOL	2,6-DIMETHYL-2,7-OCTADIENE-6-OL 1,6-Octadien-3-ol, 3,7-dimethyl- 3,7-Dimethylocta-1,6-dien-3-ol LINALYL ALCOHOL	78-70-6	C <sub>10</sub> H <sub>18</sub> O	154.24 g/mol

## 4. First Aid Measures

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
<b>Skin Contact</b>	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.



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<b>Eye Contact</b>	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eyelids.
<b>Ingestion</b>	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
<b>General Advice</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Firefighting Measures

<b>Extinguishing Media</b>	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
<b>Firefighting Procedures</b>	In case of fire and / or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep runoff water out of sewers and water sources. Dike for water control.
<b>Hazards and Concerns</b>	Static charges generated by emptying package in or near flammable vapor may cause flash fire. Fire may produce irritating, corrosive and / or toxic gases.

## 6. Accidental Release Measures

<b>Precautions and Procedures</b>	Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
<b>Containment and Cleaning</b>	<p>Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.</p> <p>The product is immiscible with water and will spread on the water surface.</p> <p>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.</p> <p>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.</p> <p>Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 12 of the SDS.</p>
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain / aquatic environment.

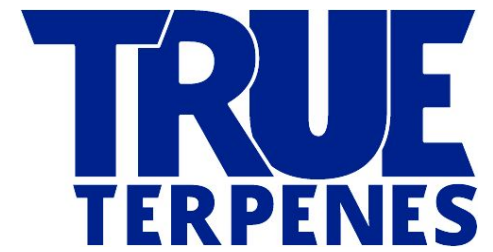
## 7. Handling, Storage, and Disposal

<b>Precautions for Safe Handling</b>	Do not handle or store near an open flame, heat or other sources of ignition. All equipment used when
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handling the product must be grounded. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Take precautionary measures against static discharges. Avoid breathing vapor.

**Conditions for Safe Storage** Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

**Disposal** -

## 8. Physical and Chemical Properties

<b>Appearance</b>	Liquid.
<b>Odor</b>	Characteristic.
<b>Melting Point / Freezing Point</b>	< -148°F (< -100°C)
<b>Initial Boiling Point and Boiling Range</b>	381.2 - 386.6°F (194 - 197°C)
<b>Flash Point</b>	178.0°F (81.1°C) - Closed Cup
<b>Vapor Pressure</b>	0.02 mmHg at 25°C

## 9. Stability and Reactivity

<b>Stability</b>	Material is stable under normal conditions.
<b>Incompatibility</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Strong oxidizing agents.

## 10. Toxicological Information

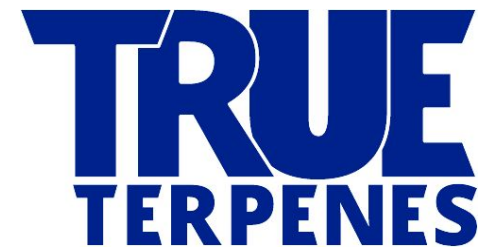
<b>LD50 (Oral)</b>	Rat, 2,790 mg/kg
<b>LD50 (Dermal)</b>	Rabbit, 2,000 mg/kg
<b>Skin Corrosion/Irritation</b>	Causes skin irritation. Guinea Pig - skin irritation, 24h, Draize Test Rabbit - irritant (OECD Guideline 405)
<b>Serious Eye Damage/Eye Irritation</b>	Causes serious eye irritation. Rabbit - moderate eye irritation, Draize Test Rabbit - slightly irritating (OECD Guideline 405)
<b>Respiratory or Skin Sensitisation</b>	Patch-test / Human: Non-sensitizing Draize test / Guinea Pig: Non-sensitizing
<b>Germ Cell Mutagenicity</b>	Results from a number of mutagenicity studies with microorganisms, mammalian cell cultures and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.
<b>Reproductive Toxicity</b>	This product is not expected to cause reproductive or developmental effects.
<b>Specific Target Organ Toxicity</b>	Not Classified.



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### - Single Exposure

**Specific Target Organ Toxicity - Repeated Exposure** Not Classified.

**Carcinogenicity** OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

## 11. Ecological Information

<b>Toxicity</b>	Activated sludge of a predominantly domestic sewage	EC10, > 100 mg/l, 3 hours
	Green Algae (chlamydomonas variabilis)	EC50, 88.3 mg/l, 96 hours DIN 38412 Part 9 static. The details of the toxic effect related to the nominal concentration.
	Daphnia magna	EC50, 20 mg/l, 48 hours DIN 38412 Part 11 static. The details of the toxic effect related to the nominal concentration.
	Ide, silver or golden orfe (leuciscus idus)	LC50, 22 - 46 mg/l, 96 hours DIN 38412 Part 15 static. The details of the toxic effect related to the nominal concentration.
	Fish	LC50-R, 27.8 mg/l, 96 hours.
<b>Persistence and Degradability</b>	Degradability/Persistence Biological/Abiological Degradation Test method: OECD 301D; EEC 92/69, C.4-E (aerobic), municipal sewage treatment plant effl. Method of analysis: BOD of the ThOD Degree of elimination: 60 - 70% (28 d) Evaluation: Readily biodegradable (according to OECD criteria)	
<b>Bioaccumulative Potential</b>	Significant accumulation in organisms is not to be expected.	
<b>Mobility in Soil</b>	No data available.	

## 12. Disposal Considerations

<b>Disposal Instructions</b>	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers / water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents / container in accordance with local / regional / national / international regulations.
<b>Local Disposal Regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous Waste Code</b>	Not established.
<b>Waste from Residues / Unused Products</b>	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see Disposal Instructions).
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residues, follow label warnings even after container is emptied.

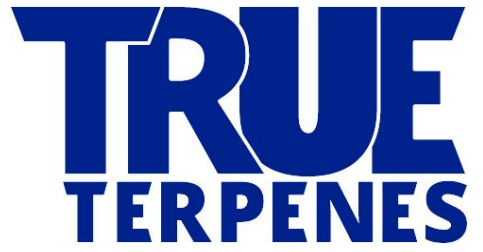
## 13. Transport Information



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<b>ADN</b>	Not regulated as dangerous goods.	
<b>ADR</b>	Not regulated as dangerous goods.	
<b>RID</b>	Not regulated as dangerous goods.	
<b>DOT BULK</b>	UN Number	NA1993
	UN Proper Shipping Name	COMBUSTIBLE LIQUID, N.O.S. (LINALOOL)
	Transport Hazard Class(es)	Combustible liq
	Subsidiary Class(es)	-
	Packing Group	III
	Environmental Hazards, Marine Pollutant	No
	Packaging Exceptions	150
	Packaging Bulk	242
	Labels Required	None
<b>DOT NON-BULK</b>	Not regulated as dangerous goods.	
<b>IATA</b>	Not regulated as dangerous goods.	
<b>IMDG</b>	Not regulated as dangerous goods.	

## 14. Regulatory Information

<b>US Federal Regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Not listed.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>SARA 304 Emergency Release Notification</b>	Not regulated.
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt.D)</b>	Not regulated.
<b>SARA Hazard Categories</b>	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
<b>SARA 302 Extremely Hazardous Substance</b>	Not listed.

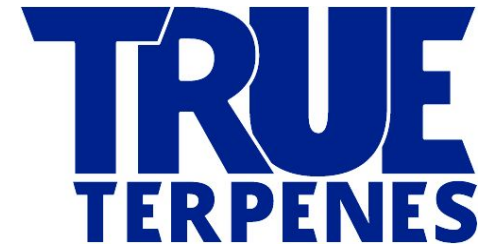




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<b>SARA 311 / 312 Hazardous Chemical</b>	Yes
<b>SARA 313 (TRI Reporting)</b>	Not regulated.
<b>CAA Section 112 HAPs List</b>	Not regulated.
<b>CAA Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.
<b>SDWA</b>	Not regulated.
<b>US. Massachusetts RTK - Substance List</b>	Not regulated.
<b>US. New Jersey Worker and Community Right-to-Know Act</b>	Not listed.
<b>US. Pennsylvania Worker and Community Right-to-Know Law</b>	Not listed.
<b>US. Rhode Island RTK</b>	Not regulated.
<b>US. California Proposition 65 CRT: Listed Substance</b>	Not listed.

## 15. Other Information

True Terpenes cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufactures, and technical groups and is considered to be accurate to the best of True Terpenes' knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.

