

Section 1. Product and Company Identification

**Product Name** Ethyl Linalool  
**CAS Number** 10339-55-6

**Parchem - fine & specialty chemicals**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification**

Flammable liquids: Category 4  
Skin irritation: Category 2  
Eye irritation: Category 2A

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard statements**

H227 Combustible liquid.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements**

**Prevention**

P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/eye protection/face protection

**Response**

P302 + P352 IF ON SKIN: Wash with plenty of soap and 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.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.



P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

**Potential Health Effects**

**Primary Routes of Entry:** Skin Absorption

**Skin:** May cause skin irritation.

**Eyes:** May cause eye irritation.

**Aggravated Medical Condition:** None known.

**Symptoms of Overexposure:** No specific symptoms known.

**Carcinogenicity**

**IARC:** No component of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible 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.

**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.

**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.

**Additional hazards and advice:** None known.

Section 3. Composition / Information on Ingredients

**Common Name** Ethyl Linalool  
**Synonym(s)** 3,7-dimethylnona-1,6-dien-3-ol; ELL  
**Formula** C<sub>11</sub>H<sub>20</sub>O  
**CAS Number** 10339-55-6

COMPONENT	CAS NUMBER	CONCENTRATION
Ethyl Linalool	10339-55-6	97 - 100%

Section 4. First Aid Measures

**General advice:** Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move to fresh air. Consult a physician after significant exposure.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

**Eye contact:** Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**Ingestion:** Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.



**Most important symptoms and effects, both acute and delayed:** No specific symptoms known.

**Notes to physician:** Treat symptomatically.

#### Section 5. Firefighting Measures

##### **Flammable properties**

**Flash point:** 189°F (87°C) at 1,013 hPa (101,300 mmHg)

**Method:** ISO 13736

**Ignition temperature:** 250°C (at 1,013 hPa, DIN 51794)

**Lower explosion limit:** Not determined

**Upper explosion limit:** Not determined

**Flammability (solid, gas):** The substance or mixture does not emit flammable gases in contact with water.

##### **Firefighting**

**Suitable extinguishing media:** Alcohol-resistant foam; Dry chemical; Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** High volume water jet

**Further information:** Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

##### **Protective equipment and precautions for firefighters**

**Specific hazards during firefighting:** None known.

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus.

#### Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:** Use personal protective equipment. Ensure adequate ventilation.

**Environmental precautions:** Do not flush into surface water or sanitary sewer system.

**Methods and materials for containment and cleaning up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

#### Section 7. Handling and Storage

**Advice on safe handling:** Avoid contact with skin and eyes. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations. Smoking, eating, and drinking should be prohibited in the application area. Ensure material transfers are under containment or extract ventilation. Ensure adequate ventilation, especially in confined

areas.

**Advice on protection against fire and explosion:** Take necessary action to avoid static electricity discharge. Product will burn under fire conditions.

**Conditions for safe storage:** Protect against light. Protect from humidity. Keep container tightly closed and dry.

**Storage temperature:** < 77°F (< 25°C)

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

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

#### Personal protective equipment

**Respiratory protection:** In the case of vapor formation use a respirator with an approved filter.

**Hand protection:** Glove material: for example nitrile rubber

Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves.

**Eye protection:** Safety glasses with side-shields

**Skin and body protection:** Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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

#### Section 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

**Appearance:** Clear liquid

**Color:** Colorless - pale yellow

**Odor:** Fresh, floral

**Odor Threshold:** No information available.

**pH:** No data available

**Melting point/range:** < -73°C (OECD Test Guideline 102)

**Boiling point/boiling range:** 215 °C (at 1,013 hPa)

**Flash point:** 87 °C (1,013 hPa, ISO 13736)

**Evaporation rate:** not determined

**Flammability (solid, gas):** The substance or mixture does not emit flammable gases in contact with water.

**Lower explosion limit:** Not determined

**Upper explosion limit:** Not determined

**Vapor pressure:** 0.07 hPa (at 15°C; OECD Test Guideline 104)

**Vapor pressure:** 0.18 hPa (at 25°C; OECD Test Guideline 104)

**Vapor pressure:** 48 hPa (at 122°C)

**Relative vapor density:** Not determined

**Density:** 0.862 g/cm<sup>3</sup> (at 20 °C; OECD Test Guideline 109)

**Solubility**

**Water solubility:** 0.656 g/l (20 °C, pH 6.14; OECD Test Guideline 105) slightly soluble

**Various organic solvents:** Soluble

**Partition coefficient (n-Octanol/water):** log Pow: 3.3 (20°C; OECD Test Guideline 107)

**Auto-ignition temperature:** Not pyrophoric

**Ignition temperature:** 250°C (at 1,013 hPa, DIN 51794)

**Thermal decomposition:** Decomposes on heating. Violent runaway reaction can occur.

**Viscosity, dynamic:** ca. 7.3 mPa\*s (at 20 °C)

**Explosive properties:** Not explosive

**Oxidizing properties:** Not oxidizing

**Other information**

**Refractive index:** 1.462 - 1.466 (589 nm, 20°C)

**Molecular weight:** 168.28 g/mol

**Surface tension:** 27.8 mN/m (20°C, OECD Test Guideline 115)

Section 10. Stability and Reactivity

**Reactivity:** No hazards to be specially mentioned.

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Possible incompatibility with materials listed under section 10.5.

**Conditions to avoid:** Heat. Exposure to air.

**Incompatible materials:** Acids and bases; Oxidizing agents

**Hazardous decomposition products:** Peroxides

Section 11. Toxicological Information

**Acute oral toxicity - LD50 (Rat):** ca. 5,280 mg/kg

**Acute dermal toxicity - LD50 (Rabbit):** > 5,000 mg/kg

**Skin irritation:** Irritating to skin. (In vitro study, EPISKIN Human Skin Model Test)

**Eye irritation:** Eye irritation (Rabbit)

**Sensitization:** Did not cause sensitization. (Human, Maximization Test (GPMT))

**Sensitization:** May cause sensitization of susceptible persons by skin contact. The effect is probably caused by degradation products or by decomposition products.

**Carcinogenicity:** This information is not available.

**Genotoxicity in vitro**

Not mutagenic (Ames test, OECD Test Guideline 471)

Not genotoxic (Chromosome aberration test in vitro, OECD Test Guideline 473) (Test performed using a similar product.)

Not genotoxic (In vitro gene mutation study in mammalian cells, OECD Test Guideline 476) (Test performed using a similar product.)

#### **Genotoxicity in vivo**

Not genotoxic (Mutagenicity (micronucleus test), Mouse, Oral, OECD Test Guideline 474) (Test performed using a similar product.)

**Reproductive toxicity:** Test performed using a similar product.

NOAEL: 200 mg/kg bw/d (Rat, females, Oral, OECD Test Guideline 421)

**Teratogenicity:** Test performed using a similar product.

NOAEL: 1,000 mg/kg body weight (Rat, Oral)

**STOT - single exposure (Acute Exposure):** The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### **STOT - repeated exposure**

**NOAEL (Oral, Rat, male and female):** 160 mg/kg bw/d

Subacute toxicity study (28 days)

Test performed using a similar product.

(OECD Test Guideline 407)

**NOAEL (Dermal, Rat, male and female):** 250 mg/kg bw/d

Sub-chronic toxicity study (90-day)

Test performed using a similar product.

(OECD Test Guideline 411)

**Further information:** May cause irritation of respiratory tract.

**Aspiration toxicity:** No aspiration toxicity classification

### Section 12. Ecological Information

#### **Toxicity**

##### **Toxicity to fish**

Danio rerio (zebra fish): LC50 (96 h) 24 mg/l (OECD Test Guideline 203)

##### **Toxicity to daphnia and other aquatic invertebrates**

Daphnia magna (Water flea): EC50 (48 h) 23 mg/l (OECD Test Guideline 202)

##### **Toxicity to algae**

Desmodesmus subspicatus (green algae): ErC50 (72 h) 25.1 mg/l (OECD Test Guideline 201)

Desmodesmus subspicatus (green algae): NOEC (72 h) 6.3 mg/l (OECD Test Guideline 201)

#### **Persistence and degradability**

Biodegradability: Readily biodegradable. 91% (28 d) (OECD Test Guideline 301C)

#### **Bioaccumulative potential**

Partition coefficient (n-Octanol/water): log Pow 3.3 (20°C ; OECD Test Guideline 107)



### Mobility in soil

**Distribution among environmental compartments:** No data available

**Surface tension:** 27.8 mN/m (20°C, OECD Test Guideline 115)

### Results of PBT and vPvB assessment

Assessment: The substance does not fulfill the PBT criteria. The substance does not fulfill the vPvB criteria.

### Other adverse effects

**Regulation:** 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

**Remarks:** This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**Additional ecological information:** There is no data available for this product.

### 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

#### International Regulation

**UNRTDG:** Not regulated as a dangerous good

**IATA-DGR:** Not regulated as a dangerous good

**IMDG-Code:** Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable for product as supplied.

#### National Regulations

**49 CFR**

**UN/ID/NA number:** NA 1993

**Proper shipping name:** Combustible liquid, n.o.s. (3,7-dimethylnona-1,6-dien-3-ol)

**Class:** 3 - CBL

**Packing group:** III

**ERG Code:** 128

**Marine pollutant:** No

**Remarks:** Above applies only to containers over 119 gallons or 450 liters.

Not regulated if shipped in packages less than or equal to 119 gallons (450 liters).



Section 15. Regulatory Information

**TSCA list:** Not relevant

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**CERCLA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.

**SARA 311/312 Hazards:** Fire Hazard; Acute Health Hazard

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

**SARA 313:** 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.

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCM1 Intermediate or Final VOC's (40 CFR 60.489).

**Clean Water Act**

This product does not contain any Hazardous Substances listed under the U.S. Clean Water Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. Clean Water Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Massachusetts Right to Know**

No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right to Know**

3,7-dimethylnona-1,6-dien-3-ol 10339-55-6 90 - 100 %

**New Jersey Right to Know**

3,7-dimethylnona-1,6-dien-3-ol 10339-55-6 90 - 100 %

**The components of this product are reported in the following inventories:**

**TSCA:** On TSCA Inventory

**HMIS Rating**

**Health:** 2

**Flammability:** 2

**Reactivity:** 1





**NFPA Rating**  
**Health:** 1  
**Flammability:** 2  
**Reactivity:** 1

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.

REVISION DATE: 5/30/2017

