

# Safety Data Sheet

## Eucalyptol



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### 1. Identification

#### 1.1 Product Identifier

**Trade Name or Designation** Isolate: Eucalyptol  
**Brand** True Terpenes  
**CAS No.** 470-82-6

#### 1.2 Recommended Use and Restrictions on Use

This product is intended for use only by adults 21 or older. This product is not to be used with tobacco or nicotine products. Consumers should determine and conduct their own safety standards and testing. Avoid contact with the skin, eyes, wood surfaces and fabrics. Keep out of the reach of children and pets. Do not use if you are pregnant, nursing or a person with or at risk of serious health conditions including but not limited to: heart disease, high blood pressure, diabetes or a person taking medicine for depression or asthma. Smoking and vaping may cause health problems. Discontinue use and consult your doctor if and adverse reaction occurs. This is not a smoking cessation product. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled.

#### 1.3 Company Information

**Company** True Terpenes  
**Address** 2416 N Hayden Island Dr.  
Portland, OR 97217 USA  
**Telephone** (888) 954-8550  
**Website** TrueTerpenes.com

#### 1.4 Emergency Contact

**CHEMTREC (USA)** 800-424-9300  
**CHEMTREC (International)** 1+ 703-527-3887

### 2. Hazard(s) Identification

#### 2.1 Classification of the Substance or Mixture

For the full text of the Hazard Statements listed below, see Section 16.

Hazard Class	Category	Hazard Statement	Precautionary Statements
Flammable Liquids	Category 3	H226	P210,P233, P240, P241, P242, P243, P280, P303+ P361+P353, P370+P378, P403+P235, P501

#### 2.2 GHS Label Elements

##### Pictograms



##### Signal Word

Warning

##### Hazard Statements

##### Hazard Number

##### Hazard Statement



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H226 Flammable liquid and vapour.

### Precautionary Statements

#### Precautionary Number Precautionary Statement

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P280 Wear protective gloves/ eye protection/ face protection.  
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Hazard(s) not Otherwise Classified (HNOC) - none.

## 3. Composition / Information on Ingredients

### 3.1 Components of Substance or Mixture

Chemical Name	Formula	Molecular Weight	CAS Number	EC Number
Cineole	C10H18O	154.25 g/mol	470-82-6	207-431-5

### Hazardous Components

Component	Classification	Concentration
Cineole	Flam. Liq. 3; H226	90.00 - 100.00%

## 4. First-Aid Measures

### 4.1 General First Aid Information

**General Advice** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of eye contact** Flush eyes with water as a precaution.

**In case of skin contact** Wash off with soap and plenty of water. Consult a physician.

**If swallowed** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



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### 4.2 Most Important Symptoms / Effects, Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

### 4.3 Indication of any medical attention or special treatment needed

No data available.

## 5. Fire-Fighting Measures

### 5.1 Extinguishing Media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Specific Hazards Arising from the Substance or Mixture

Carbon Oxides

### 5.3 Special Protective Equipment for Firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further Information

Use water spray to cool unopened containers.

## 6. Accidental Release Measures

### 6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

### 6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3 Cleanup and Containment Methods and Materials

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 6.4 Reference to Other Sections

For disposal see section 13.

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): 3: Flammable liquids

## 8. Exposure Controls / Personal Protection

### 8.1 Control Parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure Controls



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### Engineering Controls

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

### Eye/Face Protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

### Skin 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.

#### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm

Break through time: 480 min

Material tested:Camatril® (KCL 730 / Aldrich Z677442, Size M)

#### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 30 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

### Body Protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### 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. Aldrich - 147524 Page 5 of 9 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).

### Control of Environmental Exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. Physical and Chemical Properties

### 9.1. Basic Physical and Chemical Properties

#### Appearance

Clear, colorless to pale yellow liquid

#### Physical State

Liquid

#### Odor

Camphor, Fresh

#### Odor Threshold

Data not available.

#### pH

Data not available.



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<b>Melting Point / Freezing Point</b>	Melting point/range: 1 - 2 °C (34 - 36 °F) - lit.
<b>Initial Boiling Point and Boiling Range</b>	176 - 177 °C (349 - 351 °F) - lit.
<b>Flash Point</b>	49 °C (120 °F) - closed cup
<b>Evaporation Rate</b>	Data not available.
<b>Flammability</b>	Data not available.
<b>Flammability / Explosive Limits</b>	Data not available.
<b>Vapor Pressure</b>	Data not available..
<b>Vapor Density</b>	Data not available..
<b>Relative Density</b>	0.921 g/cm <sup>3</sup> at 25 °C (77 °F)
<b>Solubility (Water)</b>	insoluble
<b>Partition Coefficient:</b>	Data not available..
<b>Auto-ignition Temperature</b>	Data not available..
<b>Decomposition Temperature</b>	Data not available.
<b>Viscosity</b>	Data not available.
<b>Explosive Properties</b>	Data not available.
<b>Oxidizing Properties</b>	Data not available.
<b>Relative Vapour Density</b>	Data not available..

## 10. Stability and Reactivity

### 10.1. Reactivity

Data not available.

### 10.2. Chemical Stability

Stable under recommended storage conditions.

### 10.3. Possibility of Hazardous Reactions

Data not available.

### 10.4. Conditions to Avoid

Heat, flames, and sparks.

### 10.5. Incompatible Materials

Strong oxidizing agents, Strong Acids, Acid chlorides, Acid Anhydrides

### 10.6. Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available In the event of fire: see section 5

## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

#### Acute Toxicity - Oral Exposure

LD50 Oral - Rat - 2,480 mg/kg Remarks: (RTECS)

#### Acute Toxicity - Dermal Exposure

Data not available.

#### Acute Toxicity - Inhalation Exposure

Data not available.



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### Acute Toxicity - Other Information

Data not available.

### Skin Corrosion and Irritation

Data not available.

### Serious Eye Damage and Irritation

Data not available.

### Respiratory Sensitization

Data not available.

### Skin Sensitization

Data not available.

### Germ Cell Mutagenicity

Data not available.

### Carcinogenicity

This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

**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.

**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.

### Reproductive Toxicity

Data not available.

### Specific Target Organ Toxicity from Single Exposure

Data not available.

### Specific Target Organ Toxicity from Repeated Exposure

Data not available.

### Aspiration Hazard

Data not available.

### Additional Toxicology Information

RTECS: OS9275000

Ingestion may provoke the following symptoms: Epigastric pain., Nausea, Vomiting, Dizziness, muscle weakness, tachycardia, Cyanosis, delirium, Convulsions, renal damage, Oedema

The following applies to ethers in general: the uptake of large quantities Nausea and vomiting after swallowing. Systemic effects:

After uptake of large quantities:

Possible effects: somnolence, CNS disorders, drop in blood pressure However, when the product is handled appropriately, hazardous effects are unlikely to occur. Handle in accordance with good industrial hygiene and safety practice.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence



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## 12. Ecological Information

### 12.1. Toxicity

Toxicity to fish - LC50 - Pimephales promelas (fathead minnow) - 102 mg/l - 96 h(Cineole) Remarks: (ECOTOX Database)

### 12.2. Persistence and Degradability

Data not available.

### 12.3. Bioaccumulative Potential

Data not available.

### 12.4. Mobility in Soil

Data not available.

### 12.5. Other Adverse Ecological Effects

Discharge into the environment must be avoided.

## 13. Disposal Considerations

### 13.1 Waste Treatment Methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

## 14. Transport Information

### 14.1 Transportation by Land-Department of Transportation (DOT, United States of America)

UN number: 1993                      Class: 3                      Packing group: III

Proper shipping name: Flammable liquids, n.o.s. (Cineole)

Poison Inhalation Hazard: No

### 14.2 Transportation by Air - International Air Transport Association (IATA)

UN number: 1993                      Class: 3                      Packing group: III                      EMS-No: F-E, S-E

Proper shipping name: FLAMMABLE LIQUID, N.O.S. (Cineole)

### 14.2 Transportation -International Maritime Dangerous Goods (IMDG)

UN number: 1993                      Class: 3                      Packing group: III

Proper shipping name: Flammable liquid, n.o.s. (Cineole)

### Further Information

Data not available.



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### 15. Regulatory Information

#### 15.1 Occupational Safety and Health Administration (OSHA) Hazards

No OSHA hazards.

#### 15.2 Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

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

#### 15.3 Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

#### 15.4 Superfund Amendments and Reauthorization Act (SARA) 313 Toxic Release Inventory (TRI)

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.

#### 15.5 Massachusetts Right-to-Know Substance List

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

#### 15.6 Pennsylvania Right-to-Know Hazardous Substances

Cineole CAS#470-82-6

#### 15.7 New Jersey Worker and Community Right-to-Know Components

Cineole CAS#470-82-6

#### 15.8 California Proposition 65

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

### 16. Other Information

#### 16.1. Full Text of Hazard Statements referred to under sections 2 and 3.

Flam. Liq.	Flammable Liquid
H226	Flammable Liquid and vapour.

#### 16.2. Miscellaneous Hazard Classes

Canadian Carcinogenicity Hazard Class	Not Available.
Physical Hazards Not Otherwise Classified (PHNOC)	Not Available.
Health Hazards Not Otherwise Classified (HHNOC)	Not Available.
Biohazardous Infectious Materials Hazard Class	Not Available.

#### 16.3. National Fire Protection Association (NFPA) Rating

Health Hazard	2
Fire Hazard	2
Reactivity Hazard	0

#### 16.4. HMIS Rating

Health	2
Chronic Health Hazard	*





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**Flammability** 2  
**Physical Hazard** 0

### 16.5 Document Revision

**Issue Date** 11/01/2018

**Revision Date** 09/10/2019

**Version #** 01

**Disclaimer** 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, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. True Terpenes has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, 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.

**Revision Information** This document has undergone significant changes and should be reviewed in its entirety.

