



# SAFETY DATA SHEETS

## 1. Identification

### 1.1 GHS Product identifier

Product name 1,8-cineole

### 1.2 Other means of identification

Product number -

Other names eucalyptol (cineole)

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses For industry use only. Fragrances

Uses advised against no data available

### 1.4 Supplier's details

Company Peak Supply Co  
Address 5664 Cahuenga blvd. North Hollywood CA 91601  
Telephone (818) 308-6227

### 1.5 Emergency phone number

Emergency phone number

Service hours Monday to Friday, 9am-5pm (Standard time zone: UTC/GMT +8 hours).

## 2. Hazard identification

### 2.1 Classification of the substance or mixture

Flammable liquids, Category 3

Skin sensitization, Category 1B

### 2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Warning

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Hazard statement(s)	H226 Flammable liquid and vapour H317 May cause an allergic skin reaction
Precautionary statement(s)	
Prevention	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof [electrical/ventilating/lighting/...] equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharges. P280 Wear protective gloves/protective clothing/eye protection/face protection. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P272 Contaminated work clothing should not be allowed out of the workplace.
Response	P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378 In case of fire: Use ... to extinguish. P302+P352 IF ON SKIN: Wash with plenty of water/... P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see ... on this label). P362+P364 Take off contaminated clothing and wash it before reuse.
Storage	P403+P235 Store in a well-ventilated place. Keep cool.
Disposal	P501 Dispose of contents/container to ...

## 2.3 Other hazards which do not result in classification

none

## 3. Composition/information on ingredients

### 3.1 Substances

Chemical name	Common names and synonyms	CAS number	EC number	Concentration
1,8-cineole	1,8-cineole	470-82-6	none	100%

## 4. First-aid measures

### 4.1 Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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**If inhaled**

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

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms/effects, acute and delayed**

**SYMPTOMS:** The symptoms associated with this compound include: epigastric burning with nausea and usually vomiting; vertigo; ataxia; muscle weakness; stupor; pallor; and sometimes - cyanosis, respiratory stridor and miosis. Delirium and occasionally convulsions may occur. Symptoms may be delayed for 24 hours, rarely. **ACUTE/CHRONIC HAZARDS:** This compound may cause irritation on contact.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand-valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR as necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Camphor and Related Compounds/

**5. Fire-fighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Advice for firefighters; Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

**5.2 Specific hazards arising from the chemical**

Flash point data for this compound are not available but it is probably combustible.

**5.3 Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

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Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. 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. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.; Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.; Methods and materials for containment and cleaning up: 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.

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## 7. Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Conditions for safe storage, including any incompatibilities: 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. Recommended storage temperature -20°C.

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## 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure limit values

no data available

#### Biological limit values

no data available

### 8.2 Appropriate engineering controls

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

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

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#### Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

Wear dust mask when handling large quantities.

#### Thermal hazards

no data available

## 9. Physical and chemical properties

Physical state	colorless liquid
Colour	Colorless liquid or oil
Odour	Camphor-like odor
Melting point/ freezing point	241°C(lit.)
Boiling point or initial boiling point and boiling range	176-177°C(lit.)
Flammability	no data available
Lower and upper explosion limit / flammability limit	no data available
Flash point	49°C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	Insoluble (<1 mg/ml at 20°C)
Partition coefficient n-octanol/water (log value)	no data available
Vapour pressure	1.65mmHg at 25°C
Density and/or relative density	0.921g/mL at 25°C(lit.)
Relative vapour density	no data available
Particle characteristics	no data available

## 10. Stability and reactivity

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## 10.1 Reactivity

no data available

## 10.2 Chemical stability

STABILITY GOOD

## 10.3 Possibility of hazardous reactions

1,8-CINEOL will react with acids and bases.

## 10.4 Conditions to avoid

no data available

## 10.5 Incompatible materials

Incompatible materials: Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides

## 10.6 Hazardous decomposition products

Special hazards arising from the substance or mixture: Carbon oxides

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## 11. Toxicological information

### Acute toxicity

- Oral: LD50 Rat female oral 4.3 g/kg bw
- Inhalation: no data available
- Dermal: no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

no data available

### Reproductive toxicity

no data available



#### STOT-single exposure

no data available

#### STOT-repeated exposure

no data available

#### Aspiration hazard

no data available

## 12. Ecological information

### 12.1 Toxicity

- Toxicity to fish: LC50; Species: Pimephales promelas (Fathead Minnow) age 28 days, length 19.1 mm, weight 0.097 g; Conditions: freshwater, flow through, 25.1°C, pH 7.9, hardness 43.9 mg/L CaCO<sub>3</sub>, alkalinity 43.3 mg/L CaCO<sub>3</sub>, dissolved oxygen 6.9 mg/L; Concentration: 102000 ug/L for 96 hr (95% confidence limit: 95400-109000 ug/L) /99% purity
- Toxicity to daphnia and other aquatic invertebrates: no data available
- Toxicity to algae: no data available
- Toxicity to microorganisms: no data available

### 12.2 Persistence and degradability

no data available

### 12.3 Bioaccumulative potential

An estimated BCF of 30 was calculated in fish for 1,8-cineole(SRC), using a log Kow of 2.74(1) and a regression-derived equation(2). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

### 12.4 Mobility in soil

The Koc of 1,8-cineole is estimated as 220(SRC), using a log Kow of 2.74(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that 1,8-cineole is expected to have moderate mobility in soil. In soil infiltration studies using secondary effluent from Fort Polk, LA collected Nov 4-5 1980, 1,8-cineole, present at 0.091 ug/L, was not detected in column fluid effluents on the second inundation cycle(4).

### 12.5 Other adverse effects

no data available

## 13. Disposal considerations

### 13.1 Disposal methods

Product



The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## 14. Transport information

### 14.1 UN Number

ADR/RID: UN1993

IMDG: UN1993

IATA: UN1993

### 14.2 UN Proper Shipping Name

ADR/RID: FLAMMABLE LIQUID, N.O.S.

IMDG: FLAMMABLE LIQUID, N.O.S.

IATA: FLAMMABLE LIQUID, N.O.S.

### 14.3 Transport hazard class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

### 14.4 Packing group, if applicable

ADR/RID: III

IMDG: III

IATA: III

### 14.5 Environmental hazards

ADR/RID: no

IMDG: no

IATA: no

### 14.6 Special precautions for user

no data available

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

## 15. Regulatory information

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

Chemical name	Common names and synonyms	CAS number	EC number
1,8-cineole	1,8-cineole	470-82-6	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.