

### SECTION-1: Identification of the substance / mixture and the company / undertaking

<b>Catalogue Number</b>	CS-ER-02638
<b>Product Name</b>	Cineole(Secondary Standards traceble to EP)
<b>CAS No.</b>	470-82-6
<b>Category</b>	Pesticide Standards
<b>Synonyms</b>	Not available
<b>Brand</b>	Clearsynth Labs Ltd.
<b>Identified uses</b>	Laboratory Chemicals
<b>Uses advised against</b>	Not available
<b>Company</b>	Clearsynth Labs Ltd. Mumbai, India
<b>Emergency Phone #</b>	+91-22-245045900
<b>REACH No.</b>	Not available

### SECTION 2: Hazards identification

**Disclaimer:** This is sample MSDS. Please email [sales@clearsynth.com](mailto:sales@clearsynth.com) for more details.

#### 2.1 Classification of the substance or mixture-Regulation (EC) No 1272/2008:

Not available

#### 2.2 Label Elements

**Signal Word:** Warning

Not available

#### Hazard Statement(s)

Code	Statement
H226	Not available
H317	May cause an allergic skin reaction.

#### Precautionary Statement(s)

Code	Statement
P210	Not available
P233	Not available

P240	Not available
P241	Not available
P242	Not available
P243	Not available
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Not available
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P303+P361+P353	Not available
P321	Specific treatment (see ... on this label).
P333+P317	Not available
P362+P364	Take off contaminated clothing and wash it before reuse.
P370+P378	Not available
P403+P235	Not available
P501	Dispose of contents/container in accordance with local/regional/national/international regulation

### SECTION 3: Composition / information on ingredients

#### 3.1 Substance

Component : Cineole(Secondary Standards traceble to EP)

CAS Number : 470-82-6

Molecular Formula : C10H18O

Molecular Weight : 154.25

Parent Chemical : -

Synonyms : Not available

Concentration : Not available

### SECTION 4: First aid measures

#### SECTION 4: First-aid measures

##### 4.1 Description of first aid measures

General advice: Remove contaminated clothing and shoes. Seek medical attention if symptoms persist or are severe.

Inhalation: Move person to fresh air. Keep at rest. If breathing is difficult, seek medical attention.

Skin contact: Wash with plenty of soap and water. Get medical attention if irritation develops or persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do.

Continue rinsing. Seek medical attention if irritation persists.

Ingestion: Rinse mouth. Do NOT induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed  
Not available.

4.3 Indication of any immediate medical attention and special treatment needed  
Treat symptomatically. No data available.

### SECTION 5: Firefighting measures

SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures appropriate to local circumstances and the surrounding environment (e.g., dry chemical, foam, carbon dioxide, water spray).

Unsuitable extinguishing media: Not available.

#### 5.2 Special hazards arising from the substance or mixture

May be combustible. Vapors may form explosive mixtures with air. Thermal decomposition may produce irritating and/or toxic fumes. No data available.

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus (SCBA) and full protective gear. Cool containers with water spray if exposed to fire. Prevent fire-fighting water from entering drains or waterways.

### SECTION 6: Accidental release measures

SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapors/mist. Avoid contact with skin and eyes. Ensure adequate ventilation. Use appropriate personal protective equipment.

#### 6.2 Environmental precautions

Avoid release to the environment. Prevent entry into drains, sewers, or waterways.

#### 6.3 Methods and material for containment and cleaning up

Contain spill. Absorb with inert material (e.g., sand, earth, vermiculite). Collect into suitable, labeled containers for disposal. Clean spill area with detergent and water. Dispose of waste in accordance with local regulations.

#### 6.4 Reference to other sections

See Section 8 for personal protective equipment and Section 13 for disposal considerations.

### SECTION-7: Handling and storage

SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors/mist. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation. Keep away from heat, sparks, open flames, and hot surfaces. Use non-sparking tools and take precautionary measures against static discharge.

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

Store in a tightly closed container in a cool, dry, well-ventilated place. Protect from heat and direct sunlight. Keep away from ignition sources. Incompatible materials: Not available.

### 7.3 Specific end use(s)

Laboratory/research use. Secondary standard. Not for food, drug, or household use.

## SECTION 8: Exposure controls / personal protection

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Occupational exposure limits: Not available.

Biological limit values: Not available.

#### 8.2 Exposure controls

Engineering controls: Provide adequate ventilation. Use local exhaust where vapors/mists may be generated.

Personal protective equipment (PPE):

- Eye/face protection: Safety glasses with side shields or chemical splash goggles.
- Skin protection: Protective gloves (material not available). Wear protective clothing as appropriate.
- Respiratory protection: If ventilation is inadequate, use appropriate respiratory protection (selection based on exposure; no data available).
- Hygiene measures: Wash hands thoroughly after handling. Do not eat, drink, or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Test	Result
Appearance	No data available
IR spectrum	No data available
pH	No data available
Solubility	No data available

Property	Value
a) Physical State	No data available
b) Color	No data available
c) Odor	No data available
d) pH	No data available
e) Vapour Pressure	No data available

Property	Value
f) Viscosity	No data available
g) Initial Boiling Point and boiling range	No data available
h) Melting Point / Freezing Point	No data available
i) Auto Ignition Temperature	No data available
j) Flash Point	No data available
k) Explosion Limit, Lower	No data available
l) Explosion Limit, Upper	No data available
m) Decomposition Temperature	No data available
n) Loss on Drying	No data available
o) Relative Density	No data available
p) Solubility (in DMSO)	No data available
q) Oxidizing Properties	No data available

## SECTION 10: Stability and reactivity

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No data available.

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Heat, sparks, open flames, and other ignition sources. Excessive heat. Static discharge.

#### 10.5 Incompatible materials

Not available.

#### 10.6 Hazardous decomposition products

Irritating and/or toxic fumes. No data available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute toxicity: Cineole is an essential oil used as a fragrance or flavoring agent in foods, candies, pharmaceutical aid (flavor), cough drops, and personal care products; it has a history of being used as an expectorant and an antiseptic. Cineole is the main constituent of eucalyptus oil and is mainly used as a mucolytic agent in inflammatory airway diseases. In rats dosed by gavage for 28 consecutive days at 30, 300 and 600 mg/kg bw/day, liver

examination at 300 and 600 mg/kg bw/day showed a dosage dependent incidence of centrilobular hypertrophy of hepatocytes with no other indicators of liver damage; following a two week recovery period, hypertrophy was no longer present at 600 mg/kg bw/day for either sex. 1,8-Cineole induced accumulation of protein droplets in proximal tubular epithelial cells in male rats; renal changes were specific to the male rat and of no toxicological relevance to man. In an oral long-term study in mice (toothpaste constituent), 0, 8 and 32 mg/kg bw/day by gavage for 80 weeks followed by 16-24 weeks observation, no treatment-related effects on body weight, food consumption, survival, organ weights (adrenals, kidneys, liver, lungs, spleen), microscopic appearance (brain, lungs, liver, kidneys), or tumor incidence were observed.

- Skin corrosion/irritation: In an EPISKIN (TM) reconstructed human epidermis model (OECD 439), tissues were treated with eucalyptol for 15 minutes followed by 42 hours post-exposure incubation; relative mean viability was 88.9% and eucalyptol was considered Non-Irritant (NI).
- Serious eye damage/eye irritation: In an isolated bovine cornea study (OECD 437), undiluted eucalyptol was applied for 10 minutes followed by 120 minutes incubation; eucalyptol induced an in vitro irritancy score (IVIS) of 17.3. Corneas treated with eucalyptol were clear post treatment and had cloudy areas post incubation; eucalyptol was considered not to be an ocular corrosive or severe irritant.
- Respiratory or skin sensitization: No data available.
- Germ cell mutagenicity: No data available.
- Carcinogenicity: Eucalyptol tested as a constituent of toothpaste in an oral long-term study with mice (0, 8 and 32 mg/kg bw/day by gavage for 80 weeks followed by 16-24 weeks observation) showed no treatment-related effects on tumor incidence.
- Reproductive toxicity: No data available.
- STOT-single exposure: No data available.
- STOT-repeated exposure: In a repeated dose 28-day oral toxicity study in rats (gavage; 30, 300 and 600 mg/kg bw/day), there were no unscheduled deaths. Clinical signs were restricted to post-dosing salivation with two males and all five females at 300 mg/kg bw/day and all males and females at 1000 mg/kg bw/day being affected. At 600 mg/kg bw/day slightly lower mean body weight gain of males than control was observed for Week 1 (statistically significant); no adverse effect was observed for females at this dosage or either sex at 30 and 300 mg/kg bw/day. For females at 600 mg/kg bw/day water consumption was notably lower than control on the first day of treatment. For males at 300 and 600 mg/kg bw/day mean platelet count at the end of the treatment period was higher than control (statistically significant). At 300 and 600 mg/kg bw/day, male absolute and body weight-relative kidney weights were statistically significantly increased at the end of the treatment period. Increased absolute and body weight-relative liver weights were observed (females at 30 mg/kg bw/day and both sexes at 300 and 600 mg/kg bw/day) and considered associated with adaptive liver changes; higher liver weights were still apparent at the end of the recovery period. Kidney histopathology in males at 300 and 600 mg/kg bw/day showed increased severity of hyaline droplets in proximal tubules (with sporadic tubular cell degeneration at the high dosage) and associated tubular basophilia and/or interstitial mononuclear cell foci; findings decreased in severity after recovery at 600 mg/kg bw/day. Liver histopathology at 300 and 600 mg/kg bw/day showed dosage dependent centrilobular hypertrophy of hepatocytes with no other indicators of liver damage; hypertrophy was no longer present after recovery at 600 mg/kg bw/day. The NOAEL for the female rat was considered to be 600 mg/kg bw/day but for the male rat was only 30 mg/kg bw/day; adverse findings in males were characterized by renal changes specific to the male rat and of no toxicological relevance to man. Excluding these renal changes, the NOAEL was 600 mg/kg bw/day.
- Aspiration hazard: No data available.

Likely routes of exposure

- No data available.

Symptoms related to the physical, chemical and toxicological characteristics

- No data available.

### SECTION 12: Ecological information

#### SECTION 12: Ecological information

##### 12.1 Toxicity

No data available.

##### 12.2 Persistence and degradability

No data available.

##### 12.3 Bioaccumulative potential

No data available.

##### 12.4 Mobility in soil

No data available.

##### 12.5 Results of PBT and vPvB assessment

Not available.

##### 12.6 Endocrine disrupting properties

No data available.

##### 12.7 Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### SECTION 13: Disposal considerations

##### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations. Do not discharge to drains or the environment.

Contaminated packaging: Dispose of as unused product or according to local requirements.

Waste code: Not available.

### SECTION 14: Transport information

#### SECTION 14: Transport information

##### 14.1 UN number

Not available.

##### 14.2 UN proper shipping name

Not available.

##### 14.3 Transport hazard class(es)

Not available.

##### 14.4 Packing group

Not available.

##### 14.5 Environmental hazards

Not available.

14.6 Special precautions for user

Not available.

14.7 Maritime transport in bulk according to IMO instruments

Not available.

### SECTION 15: Regulatory information

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Not available.

15.2 Chemical safety assessment

No data available.

### SECTION 16: Other information

SECTION 16: Other information

Product name: Cineole (Secondary Standards traceble to EP)

CAS No.: 470-82-6

Catalog No.: CS-ER-02638

Supplier: Clearsynth Labs Ltd., Mumbai, India

Emergency phone: +91-22-245045900

Disclaimer: The information provided is believed to be accurate based on available data; however, no warranty is expressed or implied. Users must determine suitability for their particular application and comply with applicable laws and regulations.

Revision date: Not available.

Version: Not available.

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