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SAFETY DATA SHEET
EUCALYPTUS OIL

Version: 1.8

Effective Date: April 30, 2019

1 Identification of the substance/preparation and of the company/undertaking

• **Product details:**

• **Trade name:** Eucalyptus Oil (Eucalyptus globulus Labille)

• **Application of the substance / the preparation** Laboratory chemical

• **Manufacturer/Supplier:**

Swati Menthol & Allied Chemicals Ltd.
Opp. Akashwani, P.O. Modipur,
Bareilly Road, Rampur (U.P.) 244 901
Telephone No: +91-595-2357042, 2357043, 2357044, 2357045
Telefax: +91-595- 2357046
e-mail: info@swatimenthol.com

• **Further information obtainable from:** Department Health, Safety and Environment

• **Information in case of emergency:** Swati Menthol & Allied Chemicals Ltd.,
(India) Telephone No: +91-595-2357042, 2357043, 2357044, 2357045
(US) Emergency contact number: +1 (914) 833-7070
(EU) Emergency contact number: 0031(0)181-603336

2 Hazards identification

• **GHS Classification according to 29 CFR 1910 (OSHA HCS)**

Flammable liquids (Category 3), H226
Aspiration hazard (Category 1), H304
Skin irritation (Category 2), H315
Skin sensitisation (Category 1), H317
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

• **GHS label elements, including precautionary statements**



Danger



• **Hazard statements**

H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction [Warning Sensitization, Skin]

H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]

H304: May cause an allergic skin reaction.

H400: Toxic to aquatic life.

H410: Toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

• **Precautionary statements**

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.

P261: Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264: Wash skin thoroughly after handling.

P272: Contaminated work clothing should not be allowed out of work place.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ eye protection/ face protection.

P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P302+352: IF ON SKIN : Wash with plenty of soap and water.

P303 + P361 + P353: IF ON SKIN (or hair): Remove/ take off immediately all contaminated clothing.
Rinse SKIN with water/ shower.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+ P313: IF EYE irritation persists: Get medical advice/ attention

P321: Specific treatment (see section 8 on this label)

P331: Do NOT induce vomiting.

P332,P333 + P313: IF SKIN irritation or rash occurs: Get medical advice/ attention.

P362: Take off contaminated clothing and wash before reuse.

P363: Wash contaminated clothing before reuse.

P370 + P378: In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P391: Collect spillage. Hazardous to the aquatic environment.

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

P405: Store locked up.

P501: Dispose of contents/ container to an approved waste disposal plant.



Additional information:

All chemicals are potentially dangerous. They should only be handled by specially trained personnel..

3 Composition/information on ingredients:

Chemical characterization/composition:

70 % - 85%
Cinéol-1,8 (CAS : 470-82-6)
1999/45/CE : XI;R10;R43;S24;S37
GHS : ATO 5 (2,480), FL 3, SCI 3, SS 1
<12%
Limonène (CAS : 138-86-3)
1999/45/CE : N;XN;R10;R38;R43;R50/53;R65;S02;S24;S37;S60;S61;S62
GHS : AH 1, EH-A 1, EH-C 1, FL 3, SCI 2, SS 1
<11.5%
Pinènes (CAS : 80-56-8(alpha)+127 -91-3(beta))
1999/45/CE : N;XI;XN;R10;R38;R43;R50/53;R65;S24;S36/37;S62
GHS : AH 1, ATO 5 (3,500), EH-A 1, EH-C 1, FL 3, SCI 2, SS 1
<5%
Gamma terpinène (CAS : 99-85-4)
1999/45/CE : Xn;R10;R65;S62
GHS : AH 1, ATO 5 (3,850), FL 3, SCI 3
0.5 % - 4%
Para cymène (CAS : 99-87-6)
1999/45/CE : N;Xn;R10;R51/53;R65;S61;S62
GHS : AH 1, ATO 5 (4,750), EH-A 2, EH-C 2, FL 3, SCI 3
<1%
Terpinolene (CAS : 586-62-9)
1999/45/CE : N;Xn;R43;R50/53;R65;S24;S37;S57;S60;S61;S62
GHS : AH 1, ATO 5 (3,850), EH-A 1, EH-C 1, FL 4, SCI 3, SS 1

CAS No. Description

8000-48-4 Eucalyptus oil (1,8-Cineole)

EC Number: 283-406-2

4 First-aid measures

General information:

Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air.

After skin contact:

-Immediately rinse with water.

-If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for 10 minutes under running water. If symptoms persist consult a doctor.

· **After swallowing:** Rinse out mouth. Do not induce vomiting. Seek medical advice immediately and show the container or label.

5 Fire-fighting measures

· **Suitable extinguishing agents:** FOG CO₂ yes FOAM yes DRY CHEMICAL yes

For safety reasons, unsuitable extinguishing agents: Water with full jet.

· **Special hazards caused by the substance, its products of combustion or resulting gases:**
-Forms explosive mixtures with air at elevated temperatures.

· **Protective equipment:**
-Wear self-contained respiratory protective device.
-Wear fully protective suit.

· **Additional information:** Prevent fire-fighting water from entering surface water or groundwater.

6 Accidental release measures

· **Person-related safety precautions:**
-Do not breathe vapor/spray.

· **Measures for environmental protection:**
-Do not allow to enter sewers/ surface or ground water.
-Risk of explosion!

· **Measures for cleaning/collecting:**
-Absorb with liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).
-Ensure adequate ventilation.

7 Handling and storage

· **Handling:**

· **Information for safe handling:**
-Handling corresponding to laboratory safety guidelines.

· **Information about fire - and explosion protection:**
-Keep ignition sources away - Do not smoke.
-Protect against electrostatic charges.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** Store in cool and dry conditions; in well-sealed receptacles.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.

- **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Do not inhale gases / fumes / aerosols

- **Respiratory protection:**

- Required when vapours/aerosols are generated. Filter A (colour code: brown).

- **Personal protective equipment:**

- Protection of hands:**



Protective gloves

- **Material of gloves**

- Nitrile, thickness: 0,4 mm
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing



9 Physical and chemical properties

· General Information

Boiling Point 760 mmHg.	: 176 – 177 ^o c
Vapour Pressure (mmHg.) 300C	: <1
Vapour Density (Air = 1)	: 5.31
Solubility in water	: Practically Insoluble
Appearance & Odour	: Colorless, Cineolic
Odour Threshold	: N.A.
Partition Coefficient: n-octanol/water	: log Pow: 2.27
Specific Gravity (Water = 1)	: 0.9200 – 0.9300 @ 20 ^o c
Percent Volatiles by volume	: 100%
Evaporation rate (Butyl Acetate = 1)	: N.A.
Melting Point	: N.A (Liquid)
Freezing Point	: 2.9 °C (37.2 °F; 276.0 K)
Flammability (Liquid)	: Yes
Flammability/Explosion Limit, Upper	: N.A.
Flammability/Explosion Limit, Lower	: N.A.
Flash point	: 49°C
Auto Ignition Temperature	: N.A.
Decomposition Temperature	: N.A.
pH	: N.A.
Viscosity	: Non Viscous
Physical State	: Liquid

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Heating, open flames.
- **Materials to be avoided:** Strong oxidizing agents, strong reducing agents.
- **Dangerous reactions:** Hazardous polymerization will not occur.



• **Dangerous decomposition products:** Carbon monoxide, carbon dioxide.

11 Toxicological information

• **Acute toxicity:**

• **LD/L Oral toxicity (LD50):**

Oral – Rat - 2480 mg/kg

Oral – Rabbit - 7031 mg/kg

Dermal – Rabbit – 2480 mg/kg

Intraperitoneal – Rat – 1200 mg/kg

Mouse – subcutaneous - 1070 mg/kg

Mouse – intramuscular - 1 gm/kg

Guinea pig – intramuscular - 2250 mg/kg

• **Skin irritant effect:**

Skin - Rabbit

Result: Moderate skin irritation

• **Eye irritant effect:**

Not determined

• **Further information:** The product should be handled with the care usual when dealing with chemicals.

• **Carcinogenicity:**

As per OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS – No

• **Reproductive toxin:**

As per OSHA, IARC, NTP, ACGIH, OEHHA-Prop 65, RTECS - No

• **On the TSCA:**

Yes

• **Additional toxicological information:** After uptake of large quantities: CNS disorders

12 Ecological information

• **Behaviour in environmental systems:** No information available.

• **Mobility and bioaccumulation potential:**

Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.

• **Eco-toxic effects:** Toxic

• **Aquatic toxicity:** Toxic to aquatic life with long lasting effects

• **Fish toxicity:**

LC50 102 mg/l/96 h (Pimephales promelas)

· **General notes:**

WGK: 2

Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

· **Product:**

· **Recommendation**

The disposal is regionally differently regulated; therefore the kind of disposal is to be inquired at the responsible authorities.

This material and its container must be disposed of as hazardous waste.

· **Un-cleaned packaging:**

· **Recommendation:** Disposal according to official regulations.

14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 3 Flammable liquids.

· **Danger code (Kemler):** 30

· **UN-Number:** 1993

· **Packaging group:** III

· **Hazard label** 3

· **Description of goods:** 1993 FLAMMABLE LIQUID, N.O.S. (not viscous) Eucalyptus oil (1,8-Cineole)

· **Maritime transport IMDG:**



· **IMDG Class:** 3

· **UN Number:** 1993

· **Label** 3

· **Packaging group:** III

· **EMS Number:** F-E,S-D

· **Proper shipping name:** FLAMMABLE LIQUID, N.O.S. (Eucalyptus oil, 1,8-Cineol)

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Tel : 91-595-2357042 to 45 (4 Lines)

Fax: 91-595-2357046

Email : info@swatimenthol.com URL : <http://www.swatimenthol.com>

Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 1993
- Label 3
- Packaging group: III
- Proper shipping name: FLAMMABLE LIQUID, N.O.S. Eucalyptus oil (1,8-Cineol)
- UN "Model Regulation": UN1993, FLAMMABLE LIQUID, N.O.S., 3, III

15 Regulatory information

· **Labeling according to EU guidelines:**

Classification and labeling have been performed according to EU directive 67/548/EEC / directive 1999/45/EC.

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R-Phrases:

R10 Flammable

R38 Irritating to skin

R43 Sensitization by skin contact

R51/53 Toxic to aquatic life with long lasting effects.

R65 May cause lung damage, if swallowed

S-Phrases:

S16: Keep away from sources of ignition – No smoking

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes. Rinse immediately with plenty of water and seek medical advice.

S 36: Wear suitable protective clothing.

S 61: Avoid release to environment.

S 62: If swallowed, do not induce vomiting: seek medical help immediately and show the container or label.

Federal and State Regulations TSCA 8(b) inventory: Eucalyptus oil

FEMA Number: 2466

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

In dealing with chemicals the national laws must be observed

Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

16 Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Hazard Material Identification System (HMIS):**

Fire : 2 Health : 2 Reactivity : 0 Personal protection : C

· **Department issuing MSDS:** Department: Health, Safety and Environment

· **Contact Person:** T.L Arora

· **Abbreviations and acronyms:**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

P: Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent.