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SAFETY DATA SHEET TERPINEOL

Effective Date: May 01, 2019

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

· **Product details:**

· **Trade name:** Terpeneol

· **Application of the substance / the preparation:** Flavor & fragrance

· **Manufacturer/Supplier:**

Swati Menthol & Allied Chemicals Ltd.

Opp. Akashwani, P.O.Modipur,

Bareilly Road, Rampur (U.P.) 244 901

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

· **Information in case of emergency:** Swati Menthol & Allied Chemicals Ltd.,

Telephone No: +91-595-2357042, 2357043, 2357044, 2357045

2 Hazards identification



GHS 07

· **Hazard Classification:** According to 29 CFR 1910 (Osha HCS):

-Skin irritation (Category 2)

-Eye irritation (Category 2A)

-STOT SE 3

· Information concerning particular hazards for human and environment:

Hazard Statement(s)

H315: Causes skin irritation
H319: Causes serious eye irritation
H335: May cause respiratory irritation

· Hazard Pictogram



Warning

Causes skin/eye irritation.

· Prevention:

- P 233+235:** Keep the container tightly closed and cool.
- P 261:** Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P 262:** Do not get in eyes, on skin, or on clothing.
- P 264:** Wash..(hands/face) thoroughly after handling
- P 270:** Do not drink, eat or smoke when using this product.
- P 280:** Wear protective gloves/protective clothing/eye protection/face protection
- P 305:** If in eyes, rinse with plenty of water for at least 15 minutes. Get medical aid.
- P302 + P352:** IF ON SKIN: wash with plenty of soap and water.
- P321:** Specific treatment (see section 8 on this label)
- P305 + P351 + P338:** IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
- P333 + P313:** IF SKIN irritation or rash occurs: Get medical advice/ attention.
- P337 + P313:** IF eye irritation persists: Get medical advise/ attention.
- P362:** Take off contaminated clothing and wash before reuse.
- P363:** Wash contaminated clothing before reuse.
- P 332/313:** If skin irritation occurs, get medical advice/attention.

· Additional information:

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

3 Composition/information on ingredients:

· Chemical characterization:

Component	CAS #	Weight %
Alpha Terpineol	98-55-5	>75%
Gamma Terpineol	586-81-2	>14%
Beta Terpineol	138-87-4	<5%
Terpinen-1-ol & Terpinen-4-ol	562-74-3	<5%

(+)-p-Mentha-1,8-diene	5989-27-5	< 1%
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- **CAS No. Description**
98-55-5/8000-41-7 Terpineol
- **Identification number(s)**
- **EC Number:** 202-680-6

4 First-aid measures

- **General information:**
Immediately remove any clothing soiled by the product and wash before reuse.
- **After inhalation:** Supply fresh air.
- **After skin contact:**
 - Immediately rinse with water and soap.
 - Cover the irritated skin with an emollient.
 - If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for 15 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

- **Flammability of the product:** Combustible
- **Auto-Ignition Temperature:** Not available.
- **Flash Points:** CLOSED CUP: 78°C, COC: above 90°C.
- **Suitable extinguishing agents:**
 - SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam.
- **For safety reasons, unsuitable extinguishing agents:** Do not use water jet.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
 - Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:**
 - Wear self-contained respiratory protective device.
 - Wear fully protective suit.
- **Additional information:**
 - Prevent fire-fighting water from entering surface water or groundwater.
 - Cool all affected containers (opened) with flooding quantities of water.
 - Cool all affected containers (Unopened) with water spray

6 Accidental release measures

- **Person-related safety precautions:**

- Ensure adequate ventilation
- Do not breathe vapor/spray.
- Avoid contact with the eyes and skin.
- Wear protective clothing.

· **Measures for environmental protection:**

- Do not allow to penetrate the ground/soil.
- Do not allow to enter sewers/ surface or ground water.
- Keep contaminated washing water and dispose of appropriately.

· **Measures for cleaning/collecting:**

-**Small Spill:** Absorb with inert material/liquid-binding material (e.g. Rotisorb® Art.-Nr. 1710.1).

-**Large Spill:** 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). Keep in suitable, closed containers for disposal. Combustible material. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk.

-Finish cleaning by spreading water on the contaminated surface and dispose of the material collected as per local laws and regulations.

- Ensure adequate ventilation.

7 Handling and storage

· **Precautions:**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Avoid contact with eyes. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

· **Storage:**

Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Sensitive to light. Store in light-resistant containers.

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

8 Exposure controls/personal protection

· **Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

· **Ingredients with limit values that require monitoring at the workplace:** Not required.

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

· **General protective and hygienic measures:**

- Do not eat, drink or sniff while working.
- 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.
- Avoid contact with eyes and skin.

· **Respiratory protection:**

- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Use suitable respiratory protective device only when aerosol or mist is formed.
- Required when vapors/aerosols are generated.

· **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.	: 214-224° C
Vapour Pressure (mmHg.) 30°C	: <1
Vapour Density (Air = 1)	: 5.38
Solubility in water	: Practically Insoluble
Appearance	: Colorless, slightly viscous
Odor	: Pine terpene Lilac woody

Odor Threshold	: N.A.
Specific Gravity (Water = 1)	: 0.9350
Percent Volatiles by volume	: 100%
Evaporation rate (Butyl Acetate = 1)	: N.A.
Melting Point	: N.A.
Freezing Point	: 15 deg C
Physical State	: Liquid
pH	: N.A.
Flammability	: N.A.
Partition coefficient: n-octanol/water	: N.A.
Auto Ignition Temperature	: N.A.
Decomposition Temperature	: N.A.
Viscosity	: N.A.
Upper/Lower flammability or explosive Limits	: N.A.
Flash Point	: 78°C closed cup

10 Stability and reactivity

- **Stability:** This product is stable under recommended storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Materials to be avoided:** Strong oxidizing agents.
- **Conditions to be avoided:** Prolonged or excessive heat and/or exposure to air.
- **Dangerous reactions:** No information available.
- **Dangerous decomposition products:** Liable to cause smoke & acrid fumes during combustion: carbon monoxide & carbon dioxide may be formed.

11 Toxicological information

- **Acute toxicity:**
 - **LD50 values relevant for classification:**
 - Oral LD50 4300 mg/kg (Rat)
 - Dermal LD50 3000 mg/kg (Rabbit)
 - Mouse – subcutaneous - 1360 mg/kg
 - Rat – oral - 5170 mg/kg
 - Mouse – oral - 2830 mg/kg
 - Mouse – intramuscular - 2 gm/kg

Primary irritant effect:

- **On the skin:** Slight irritations.
- **On the eye:** Irritating effect.
- **After inhalation:** Slight irritations in respiratory tract.
- **Sensitization:** No data available
- **Ingestion:** May be harmful

· **Mutagenicity data:**

Not determined

· **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

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

12 Ecological information

- **Ecotoxicity:** No data available.
- **Aquatic toxicity:** Quantitative data on the ecological effect of this product are not available.
- **Remark:**
 - Do not allow to enter waters, waste water, or soil.
 - Harmful to aquatic environment.
 - Toxic for fish
- **Additional ecological information:**
- **General notes:**
 - Water hazard class 1 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.

13 Disposal considerations

· **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:** Not dangerous goods

- **UN-Number:** Not found
- **Packaging group:** Not determined

- **Maritime transport IMDG:**

- **IMDG Class:** Not dangerous goods
- **UN Number:** Not found
- **Packaging group:** Not determined

- **Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** Not dangerous goods
- **UN/ID Number:** Not found
- **Packaging group:** Not determined

15 Regulatory information

• **Labeling according to EU guidelines:**

Classification and labeling have been performed according to **OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

TSCA 8(b) inventory: Terpineol

National regulations:

US - California Proposition 65

- Carcinogens & Reproductive Toxicity (CRT): Listed substance Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

- Hazard categories

Immediate Hazard – Yes, Delayed Hazard – No, Fire Hazard – No, Pressure Hazard – No, Reactivity Hazard – No.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

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 1 (Self-assessment): hazardous for water.

16 Other information

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. Swati Menthol & Allied Chemicals Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. Further, 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 : 0 Reactivity : 0 Personal protection : H

• **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.

It is computer generated document and does not require any signature or stamp.