 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name	Terpineol
Trade name	Terpineol
CAS No.	8-55-5/8000-41-7

1.2 Manufacturer / Supplier Contact Information :

Name	Bloomchemag Private Limited
Address	Unit 108, Tower 1, Assotech Business Cresterra (ABC) Sector 135, Noida - 201301 India
Telephone	Phone: +91 72919 98685/ 72919 74482/ 72919 98687/ 98713 71594
Email	sales@bloomchemag.com, logistics@bloomchemag.com

Belgium Office Name	Bloomchemag bvba
Address	Sint-Antoniusstraat 16 b1, B-2400, Mol, Belgium
Email	info@bloomchemag.com

SECTION 2 - HAZARD IDENTIFICATION

Hazards identification

Classification according to European Directives




Xi Irritant

Hazard Classification (According to Regulation (EC) No 1272/2008:

- **H315:** Causes skin irritation
- **H319:** Causes serious eye irritation
- **H303:** May be harmful if swallowed
- **H227:** Combustible Liquid
- **H402:** Harmful to aquatic life

R-Phrase

- **R36:** Irritating to eyes
- **R38:** Irritating to skin

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

S- Phrase:

- **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

GHS labels elements



Warning (Causes Skin/Eye Irritation)

Prevention(s):

- **P 210:** Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- **P 233+235:** Keep the container tightly closed and cool.
- **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 273:** Avoid release to environment
- **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.
- **P 332/313:** If skin irritation occurs, get medical advice/attention.
- **P370/P378:** In case of fire: Use appropriate media to extinguish.

Additional Information:

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


SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

CAS No.	Chemical Name	EC Number
98 - 55 - 5/8000-41-7	Terpineol	202-680-6

SECTION 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.
 - 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:**

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

- Rinse out mouth. Do not induce vomiting. Seek medical advice immediately and show the container or label.


SECTION 5 - FIRE FIGHTING MEASURES

- **Flammability of the product:** Combustible
- **Auto-Ignition Temperature:** Not available
- **Flash Points:** CLOSED CUP: 78°C, COC: above 90°C
- **For safety reasons, 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

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation
 - Do not breathe vapour/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. 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.

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

SECTION 7 - HANDLING & STORAGE

Precautions for safe handling:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapour/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.

Conditions for safe 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.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours 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:**

1. Do not eat, drink or sniff while working.
2. Keep away from foodstuffs, beverages and feed.
3. Immediately remove all soiled and contaminated clothing.
4. Wash hands before breaks and at the end of work.
5. Do not inhale gases / fumes / aerosols.
6. Avoid contact with eyes and skin.

- **Respiratory protection:**


1. 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.
2. Use suitable respiratory protective device only when aerosol or mist is formed.
3. Required when vapours/aerosols are generated.

- **Personal protective equipment:**

Protection of hands:



Protective Gloves

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

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

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Boiling Point 760 mmHg.	214-224°C
Vapour Pressure (mmHg.) 30oC	<1
Vapour Density (Air = 1)	5.38
Solubility in water	Practically Insoluble
Appearance	Colourless, slightly viscous
Odor	Pine terpene Lilac woody
Specific Gravity(Water = 1)	0.9350 @ 20°C
Percent Volatiles by volume	100%
Evaporation Rate (Butyl Acetate = 1)	N.A
Melting Point	N.A


SECTION 10 - STABILITY AND REACTIVITY

Chemical stability: 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 open flames/sparks.

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

Dangerous reactions: No information available.

Dangerous decomposition products: Liable to cause smoke & acrid fumes during combustion: carbon monoxide & carbon dioxide may be formed.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute toxicity:

LD50 values relevant for classification:

- Oral LD50 4300 mg/kg (Rats)
- Dermal LD50 3000 mg/kg (Rabbit)

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.

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

SECTION 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: Marine Pollutant

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.

SECTION 13 - DISPOSAL CONSIDERATIONS

Product: Terpineol

- **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:** Dispose of as unused product.
- **Recommendation:** Disposal according to official regulations.

SECTION 14 - TRANSPORT INFORMATION

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

Land transport ADR/RID (cross-border)



ADR/RID class: 3 Flammable liquids.

- **Danger code (Kemler):** 30
- **UN-Number:** 1272
- **Packaging group:** III
- **Hazard label:** 3
- **Description of goods:** Pine Oil

Maritime transport IMDG:



IMDG Class: 3


- **UN Number:** 1272
- **Label:** 3
- **Packaging group:** III
- **Marine pollutant:** Yes (P)
- **Proper shipping name:** PINE OIL

Air transport ICAO-TI and IATA-DGR:



ICAO/IATA Class: 3

- **UN/ID Number:** 1272
- **Label:** 3
- **Packaging group:** III
- **Proper shipping name:** PINE OIL
- **UN "Model Regulation":** UN1272, PINE OIL., 3, III

 Bloomchemag Private Limited	Safety Data Sheet	SDS No.	B - 02
	Terpineol	Effective from	08 Nov 2017

SECTION 15 - REGULATORY INFORMATION

Labelling according to EU guidelines:

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

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

TSCA 8(b) inventory: Terpineol

National regulations:

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.

SECTION 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. Bloomchemag Private Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product. 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

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%

LD50: Lethal dose, 50%

Company's Declaration: Information contained in this MSDS is believed to be correct but no representation; guarantee or warranties of any kind are made as to its accuracy, suitability for particular application or results to be obtained from them. This MSDS shall be used as a guide only. Bloomchemag Pvt Ltd makes no warranties expressed or implied of the adequacy of this document for any particular purpose.