

MATERIAL SAFETY DATA SHEET TERPINOLENE

ISSUE DATE: 01.01.2024

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

1.1 Product identifier

Product : TERPINOLENE
CAS : 586-62-9
EC Number : 947-956-3
Registration number (REACH) : --/--
Index No. :

1.2 Relevant identified uses of the substance or mixture

Industrial uses. Formulation [mixing] of preparations.
Uses advised against: Other uses than those recommended.

1.3 Details of the supplier of the safety data sheet

HIMALAYA TERPENES PVT LTD

201/5, Jogani Industrial Complex ,V.N. Purav Marg,
Sion-Chunabhatti (E) Mumbai – 400022
CIN : U24100MH1999PTC121377 Tel :+91-22-24056704/05 Fax:+91-22-24056700
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SECTION 2: HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008

Flammable liquids, Hazard Category 3; H226
Skin corrosion/irritation, Hazard Category 2; H315
Sensitisation — Skin, Hazard Category 1B; H317
Aspiration hazard, Hazard Category 1; H304
Short-term (acute) aquatic hazard, category acute 1; H400
Long-term (chronic) aquatic hazard, category chronic 1; H410.

2.2 Label elements

EC Number: 947-956-3
TERPINOLENE



Signal word: 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.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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P280: Wear protective gloves/eye protection/face protection.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331: Do NOT induce vomiting.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

Results of PBT and vPvB assessment

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

Environmental endocrine disrupting properties.

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

Human health endocrine disrupting properties.

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name
≥50% and ≤100	947-956-3 01-2119982325-32	586-62-9	Rectified Hydrocarbons by-products from synthetic process of Turpentine

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Consumption: If swallowed, rinse mouth with water.
Seek medical advice immediately and show this container or label. Keep the person at rest. Do NOT induce vomiting.

Eye contact: Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and seek medical advice.

Inhalation: Remove person to fresh air and keep at rest.

Skin contact: Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed:

Irritating to skin or mucous membranes (inflammation). If ingested, it may cause temporary irritation to the gastrointestinal (digestive) tract. May produce an allergic reaction (rash, urticaria).

Aspiration hazard. May cause lung damage if swallowed (aspiration toxicity includes severe acute effects such as chemical pneumonia, varying degrees of pulmonary injury or death following aspiration).

Read label before use. No additional information available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.



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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Recommended: Foam or dry powder.
For safety reasons do not use full water jet.

5.2 Special hazards arising from the substance or mixture

Not applicable.

5.3 Advice for firefighters

Closed containers may build up pressure at elevated temperatures.
Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.
Prevent run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Do NOT smoke and do NOT expose the product to an open flame or to any other potential source of ignition.
Wear appropriate gloves to prevent skin exposure.
Avoid contact with skin and inhalation of its vapours or smoke.
Maintain adequate ventilation in the working area after spilling.

6.2 Environmental precautions

Avoid contaminating the environment via the sewers or water sources.

6.3 Methods and material for containment and cleaning up

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).
Ventilate area and wash spill site after material pickup is complete.
Dispose of in accordance with current laws and regulations.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from food, drink and animal feedingstuffs. Do not smoke.
Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.

Keep away from incompatible substances (see section 10).

7.3 Specific end use(s)

Not available.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure controls

Personal protection equipment:	Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.
Engineering Controls-Ventilation:	The areas where the product is handled and stored should be adequately ventilated.
Respiratory Protection:	Use personal breathing apparatus whenever deemed necessary.
Skin Protection:	Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Rinse and remove gloves immediately after use. Wash hands with soap and water thoroughly after handling.
Eye/Face protection:	Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	LIQUID
Colour:	COLORLESS - PALE YELLOW
Odour:	Characteristic
Odour threshold:	Not determined
pH value:	Not determined
Refractive Index:	1.4675 - 1.4960 @°20C
Molecular Weight:	136.2
Boiling point:	180 - 190 °C
Flash point:	46 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Vapour pressure at 20°C:	0.53 mmHg
Vapour density:	Not determined
Density:	0.850 - 0.880 g/cm ³ (25 °C)
Water solubility:	Not determined
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	Not determined
Kinematic viscosity:	Not determined
Oxidising properties:	Not available.
Explosive properties:	Not available.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined

9.2 Other information

Additional information: Not applicable.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Not available.

10.2 Chemical stability



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Stable under normal operating conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.

10.4 Conditions to avoid

Heat, flames and other sources of ignition.

Handle in accordance with good industrial hygiene and safety practice.

10.5 Incompatible materials

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

SECTION 11: TOXOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity (LD50):	Non toxic
Acute dermal toxicity (LD50):	Non toxic
Acute Inhalation toxicity (LC50 Gas):	Non toxic
Acute Inhalation toxicity (LC50 Dusts and Mists):	Non toxic
Acute Inhalation toxicity (LC50 Vapours):	Non toxic

See also sections 2 and 3.

11.2 Information on other hazards:

Endocrine disrupting properties.:

The product does not contain substances identified as having human health endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute aquatic toxicity: Not determined

Chronic aquatic toxicity: Not determined

See also sections 2 and 3.

12.2 Biodegradation:

72%, 28 days

12.3 Bioaccumulative potential:

Not determined

12.4 Mobility in soil:

Not available.

12.5 Results of PBT and vPvB assessment:

The product does not contain substances identified as PBT and/or vPvB in a concentration equal to or greater than 0,1 % (w/w).

12.6 Endocrine disrupting properties.:

The product does not contain substances identified as having environmental endocrine disrupting properties in a concentration equal to or greater than 0,1 % (w/w).

12.7 Other adverse effects:

Not available.

Do not allow the material to enter streams, sewers or other waterways.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Container disposal: Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site.

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

SECTION 14: TRANSPORT INFORMATION

International Carriage of Dangerous Goods by Road (ADR)

14.1 UN No.: UN2541
14.2 Proper Shipping Name: TERPINOLENE 20
14.3 Class: 3
14.4 Packing Group: III
14.6 Special precautions for user:
Tunnel restriction code: (D/E)

Label:



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Sea Transport (IMDG)

14.1 UN No.: UN2541
14.2 Proper Shipping Name: Terpinolene
14.3 Class: 3
14.4 Packing Group: III
14.5 Marine Pollutant: Yes
14.6 Special precautions for user:

IMDG-Code segregation group: -

EmS: F-E,S-E

Label:



-

Air Transport (ICAO/IATA)

14.1 UN No.: UN2541
14.2 Proper Shipping Name: Terpinolene 20
14.3 Class: 3
14.4 Packing Group: III
14.6 Special precautions for user:
Passenger aircraft: ACCEPTED
Cargo aircraft: ACCEPTED



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SECTION 15: REGULATORY INFORMATION

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

Substances of very high concern:
Not available.

15.2 Chemical safety assessment

Not available.

SECTION 16: OTHER INFORMATION

This material should only be used for industrial purposes.
Full text of classifications (CLP/GHS):

Flam. Liq. 3; H226	Flammable liquids, Hazard Category 3
Acute Tox. 4; H302	Acute toxicity (oral), Hazard Category 4
Acute Tox. 4; H332	Acute toxicity (inhal.), Hazard Category 4
Skin Irrit. 2; H315	Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2; H319	Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1; H317	Sensitisation — Skin, Hazard Category 1
Skin Sens. 1B; H317	Sensitisation — Skin, Hazard Category 1B
Repr. 2; H361	Reproductive toxicity, Hazard Category 2
STOT SE 3; H336	Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis
Asp. Tox. 1; H304	Aspiration hazard, Hazard Category 1
Aquatic Acute 1; H400	Short-term (acute) aquatic hazard, category acute 1
Aquatic Chronic 1; H410	Long-term (chronic) aquatic hazard, category chronic 1
Aquatic Chronic 2; H411	Long-term (chronic) aquatic hazard, category chronic 2
Aquatic Chronic 3; H412	Long-term (chronic) aquatic hazard, category chronic 3

Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
3. Occupational Exposure Limits by the INSHT (Spanish National Institute of Safety and Hygiene at Work).

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