HIMALAYA TERPENES PVT. LTD.

201, BLDG. No. 5, Jogani Industrial Estate, VN Purav Marg, Chunabhatti Mumbai – 400022.
Tel : +91-22-24056704/05 Fax: +91-22-24056700 Email : mum@himalayaterpene.com

MATERIAL SAFETY DATA SHEET

DELTA 3 CARENE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: DELTA 3 CARENE

Use of the substance: This material is only used as an ingredient in the manufacturing of aromatic bases.

Company identification:	**HIMALAYA TERPENES PVT. LTD** 201, BLDG. NO. 5, JOGANI INDL. COMPLEX, V.N.PURAV MARG, SION-CHUNABHATTI, MUMBAI PIN – 400022 IEC NO. 0301020507
Tel. No.	**(022)-2405 6704/05**
Fax No.	**(022) 2405 6700**

2. HAZARDS IDENTIFICATION:

Human hazardous : In his pure state, and when it is not correctly manipulated or when inhaled. Excessively, product can cause irritation of the skin, eyes and respiratory tracks.
Environment hazardous : if liked, product can pollute subsoil, soil and superficial water.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

CHEMICAL INFORMATION:	3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene
Nº CAS:	13466-78-9
Nº EINECS:	236-719-3
FEMA:	3821
Nº CEE:	--
MOLECULAR FORMULA:	C10 H16
MOLECULAR WEIGHT:	136

4. FIRST AID MEASURES:

Inhalation :	In case of excessive inhalation, expose the person to fresh air and if Necessary, obtain medical assistance.
Symptoms:	Choking, drowsiness, respiratory disruptions, Eye contacts immediately rinse eyes with water. If any sign of tissue damage or Persistent irritation is apparent, obtain medical assistance immediately.
Symptoms:	Irritation, Reddening.
Skin contact :	Remove contaminated clothing. Wash skin immediately with water and Soap. If any sign of tissue damage or persistent irritation is apparent Obtain medical assistance immediately
Symptoms:	Irritation, Stinging.
Ingestion :	Rinse mouth with water. Obtain medical assistance immediately. Do not induce vomiting.
Symptoms:	Queasiness, Stomach Aches

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5. FIRE-FIGHTING MEASURES:

Ways of extinction :	CO2, extinction powder or foam.
Do not use:	Water directly.
Individual protection : equipments	Use general extinction equipments for fire fighting and use breathing equipment. Avoid inhalation of fumes and vapours.
Dangers :	Do not allow that the spilling of the fire extinction of fire flows into drain or water. High temperatures can provoke high pressures inside the closed packages. Do not breathes fumes or vapours.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions: Remove all sources of ignition. In case of existing, avoid breathing combustion vapours. Provide proper ventilation. Avoid breathing vapours. Avoid the contact with the skin, eyes and mucous.

Environmental precautions: Spillages should be contained by use of sand or another inert material. Avoid penetration in the sewage system and surface water.

Methods for cleaning : Spillages should be contained by use of sand or another inert material. All the materials used for cleaning spillages should be disposed of promptly in accordance with current legislation.

7. HANDLING AND STORAGE:

Handling: Apply according to good manufacturing and industrial hygiene practices. Respect good personal hygiene practices. Do not drink, eat or smoke during manipulation. Respect the precaution rules of the industrial risks. Keep away from sources of ignition. The incorporation to the finished product must be done at the lowest possible temperature. Ensure good ventilation of work station .

Storage: Store according to the local and/or national storage rules, respecting the precautions printed on the labels. Store in hermetic recipients, belter full, in cool, dry and ventilated areas away from heat sources and protected from light. Keep air contact to a minimum. Keep away from sources of ignition and flames fulfil the chemical agent storage regulation. Do not store this product near any kind of food , or drinkable water.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Respiratory protection: Avoid breathing directly on the product. Apply local ventilation when appropriate.

Hand protection: Use chemical resistant gloves

Eye protection: Use safety glasses

Skin protection: Avoid skin contact

Environment exposure control: Avoid discharging into drainage water. Only eliminate by authorized companies.

9. PHYSICAL AND CHEMICAL PROPERTIES:

General information:

Appearance: LIQUID

Odour:	CHARACTERISTIC
Colour:	COLOURLESS-PALE YELLOW

Important health, safety and environment information:

Boiling point/Boiling range:	169-174ºC
Flash point:	45ºC
Relative density:	0.86 – 0.865

10. STABILITY AND REACTIVITY:

Stable under normal conditions

Conditions to avoid: High temperatures, pressure and inadequate manipulation of Packages. Materials to avoid: Acid, alkaline and oxidizing agents Hazardous decomposition products: Under normal conditions of storage are not Known dangerous substances in decomposition.

11. TOXICOLOGICAL INFORMATION:

Repeated dose toxicity: Due to the lack of adequate toxicology studies, the product has to be considered as possible health hazard, and therefore it is supposed to manipulate it safety with all possible kinds of protection.

12. ECOLOGICAL INFORMATION:

12.1 Toxicity
Further details: no data available
12.2. Persistence and degradability
Further details: no data available
12.3 Bioaccumulative potential
Partition coefficient: n-octanol/water:
no data available
12.4 Mobility in soil
no data available
12.5 Results of PBT and v PvB assessment
no data available
12.6 Other adverse effects
General information: Do not allow to enter into ground-water, surface water or drains.

13. DISPOSAL CONSIDERATIONS:

Respect the local or national norms about elimination of residues and packages appropriate elimination method : whenever possible, it is better to recycle than deposing or incinerating.

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14. TRANSPORT INFORMATION:

FLAMMABLE LIQUID, N.O.S
ADR Class: 3
Pack group: III
Other information:
IMDG Class: 3
Pack group: III
Other information:
IATA Class: 3
Pack group: III
UN NO: 1993

15. REGULATORY INFORMATION:

HAZARD SYMBOLS: Xn

R PHRASES:

R10-	Flammable.
R52/53-	Harmful to aquatic organisms, may cause long-term advese effects in de aquatic environment.
R43-	May cause sensitization by skin contact.
R65-	Harmful may cause lung damage if swallowed

S PHRASES:

S24-	Avoid contact with skin.
S37-	Wear suitable gloves.
S62-	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or Label.

16. ADDITIONAL INFORMATION:

The information contained in this MSDS is believed to be accurate and represent the best information currently available to us. We have tried to make the information as accurate as, however, it must be pointed out that we make no warranty of merchantability or any other warranty, expressed or implied. The Himalaya Terpenes Pvt Ltd, disclaims any liability for any injury or loss arising from the use of this information or the materials described. Users should make their own investigations to determine the suitability of the information for their particular applications. In no way shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any social, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.