



**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

· **1.1 Product identifier**

· Trade name: **D-LIMONENE**

· **Substance name (4R)-isopropenyl-1-methylcyclohexene**

· CAS number: 5989-27-5

· EINECS number: 227-813-5

· Index number: 601-029-00-7

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses: production of the substance, intermediate, monomer, industrial formulation, fragrance substance, solvent, formulation and use of coatings, inks, strippers, adhesives and sealants

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

· **HIMALAYA TERPENES PVT. LTD**

201, BLDG. NO. 5,

JOGANI INDL COMPLEX,

V.N.PURAV MARG, SION-CHUNABHATTI,

Email: [info@himalayaterpene.com](mailto:info@himalayaterpene.com)

· **1.4 Telephone numbers**

· +91-22-3539780

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008:**



GHS02 flame

Flam. Liq. 3

H226 Flammable liquid and vapour.



GHS08 health hazard

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07 exclamation mark

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1B H317 May cause an allergic skin reaction.

· **Information concerning particular hazards for human and environment:**

Effects on human health:

if swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours minimum).



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- **Additional information:** Acute and chronic M factor = 1
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms:**



GHS02 GHS07 GHS08 GHS09

- **Signal word:** Danger
- **Hazard statements:**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.
- **Precautionary statements:**  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P331 Do NOT induce vomiting.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents and container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:**  
According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.
- **vPvB:**  
According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.

## SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterization: Substance** monoconstituent
- **Identification number(s)**
- **CAS number:** 5989-27-5
- **EINECS number:** 227-813-5
- **Index number:** 601-029-00-7
- **Description:** D-limonene [(R)-p-mentha-1,8-diene]

### · Impurities and stabilising additives (classified as hazardous):

CAS: 123-35-3 EINECS: 204-622-5	myrcene 
CAS: 78-70-6 EINECS: 201-134-4	linalool 
CAS: 80-56-8 EINECS: 201-291-9	alpha-pinene 



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CAS: 555-10-2 EINECS: 209-081-9	beta-phellandrene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304
CAS: 13466-78-9 EINECS: 236-719-3	delta-3-carene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317
CAS: 99-85-4 EINECS: 202-794-6	gamma-terpinene ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361; Asp. Tox. 1, H304
CAS: 127-91-3 EINECS: 204-872-5	beta-pinene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1B, H317
CAS: 99-87-6 EINECS: 202-796-7	paracymene ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361; Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411
CAS: 586-62-9 EINECS: 209-578-0	terpinolene ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1B, H317

All impurities classified as very toxic to aquatic life categories acute 1 and chronic 1 have a M factor equal to 1.

- **Additional information:** For the wording of the listed hazard statements, refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air. If symptoms are experienced, get medical attention.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately rinse with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Get medical attention if irritation or skin rash occurs.

#### After eye contact:

Immediately rinse with plenty of water. Remove contact lenses, if present and easy to do. Hold eyelids apart and flush eyes with plenty of cool low-pressure water for 15 minutes. Consult an ophthalmologist.

#### After swallowing:

Do NOT induce vomiting.

If the person is conscious, rinse out mouth with water.

Call for a doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed Pulmonary effects if swallowed accidentally.

### 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed accidentally, medical survey for 48 hours minimum.

## SECTION 5: Firefighting measures

### 5.1 Suitable extinguishing agents

Foam

Fire-extinguishing powder

Carbon dioxide (CO<sub>2</sub>)

### 5.2 Special hazards arising from the substance or mixture In case of fire, may release irritant and toxic fumes.

### 5.3 Advice for firefighters

#### Protective equipment:

Firefighters should wear appropriate protective equipment and self-contained breathing apparatus.

#### Additional information: Cool endangered receptacles with water spray.



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## SECTION 6: Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate personal protective equipment. Keep unprotected persons away.

Provide adequate ventilation.

Keep away from sources of ignition.

### · 6.2 Environmental precautions

Do not allow product to reach soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (soil, waterways, drains or sewers).

### · 6.3 Methods and material for containment and cleaning up

Small spills:

Absorb spilled liquid with inert absorbent. Collect in an appropriate container properly labelled. Close it for disposal.

Large spills:

Stop spill if it can be done without danger. Dike. Pump as much liquid as possible with an explosion-proof pump or a hand pump. Absorb the remaining liquid with inert absorbent. Collect in an appropriate container properly labelled.

Close it for disposal. Use only non-sparking tools.

### · 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

### · 7.1 Precautions for safe handling

Wear appropriate personal protective equipment. Provide adequate ventilation in the workplace.

### · Information about fire - and explosion protection:

Protect against electrostatic charges.

Use only non-sparking tools.

Keep ignition sources away.

Protect from heat.

### · 7.2 Conditions for safe storage

If possible, store the drums or ecobulk under shelter in a cool and well ventilated place.

Keep container type drums or ecobulk tightly closed.

All equipments including ventilation systems must be equipotential and earthed.

Keep away from sources of ignition.

Protect drums or ecobulk from high heat and direct sunlight.

### · Further information about storage conditions:

Recommended materials for storage: stainless steel, aluminium.

Some plastics and elastomers may not be compatible with the product.

### · 7.3 Specific end use(s) Only identified uses listed in section 1 are covered by exposure scenarios.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

### · Components with limit values that require monitoring at the workplace:

d-Limonene (CAS 5989-27-5) - one of the two isomers of dipentene (CAS 138-86-3)

Finland: limit value - 8 hours = 140 mg/m<sup>3</sup> (25 ppm)

Finland: limit value - short term = 280 mg/m<sup>3</sup> (50 ppm) Germany

(AGS): limit value - 8 hours = 28 mg/m<sup>3</sup> (5 ppm) Germany (AGS):

limit value - short term = 110 mg/m<sup>3</sup> (20 ppm) Germany (DFG):

limit value - 8 hours = 28 mg/m<sup>3</sup> (5 ppm) Germany (DFG): limit

value - short term = 112 mg/m<sup>3</sup> (20 ppm) Switzerland: limit value - 8

hours = 40 mg/m<sup>3</sup> (7 ppm) Switzerland: limit value - short term = 80

mg/m<sup>3</sup> (14 ppm)



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## · DNELs

### · DNEL (Derived No-Effect Level): Workers - Long-term exposure

Systemic effects - inhalation: 66.7 mg/m<sup>3</sup>  
Systemic effects - dermal: 9.5 mg/kg body weight/day

### · DNEL (Derived No-Effect Level): General population - Long-term exposure

Systemic effects - inhalation: 16.6 mg/m<sup>3</sup>  
Systemic effects - dermal: 4.8 mg/kg body weight/day  
Systemic effects - oral: 4.8 mg/kg body weight/day

## · PNECs

- PNEC (Predicted No-Effect Concentration) aqua (freshwater): 14 µg/L
- PNEC (Predicted No-Effect Concentration) aqua (marine water): 1.4 µg/L
- PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 1.8 mg/L
- PNEC (Predicted No-Effect Concentration) sediment (freshwater): 3.85 mg/kg sediment dry weight
- PNEC (Predicted No-Effect Concentration) sediment (marine water): 0.385 mg/kg sediment dry weight
- PNEC (Predicted No-Effect Concentration) soil: 0.763 mg/kg soil dry weight
- PNEC (Predicted No-Effect Concentration) oral: 133 mg/kg food

## · Additional information:

This sheet is based on the current valid lists for occupational exposure limit values at the time of its preparation. The DNELs and PNECs values are derived from the chemical safety assessment conducted for REACH.

Occupational exposure limits and DNELs are health-based but they are not necessarily set in the same way. The primary duty is to comply with risk management measures which enable to limit exposures as much as possible and to be in line with exposure reference levels.

## · 8.2 Exposure controls

### · General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Immediately remove all soiled and contaminated clothing. Avoid contact with eyes and skin.

### · Personal protective equipment

#### · Respiratory protection:

If ventilation is insufficient, use a breathing apparatus (filtering device with type A cartridge or insulating device with a source of fresh air independent of the ambient air).

#### · Hand protection:

Protective gloves resistant to chemicals (standard EN 374-1). They should be replaced regularly and if there is any indication of degradation.

#### · Material of gloves

Nitrile rubber, polyvinyl alcohol or Viton (natural rubber gloves, neoprene, butyl rubber or polyvinyl chloride (PVC) are not recommended).

#### · Eye protection:

Safety glasses (standard EN 166).

For qualifying operations with increased risk (eg: connection/disconnection of hoses, purges, sampling, etc.) wear safety glasses (standard EN 166) AND a face shield.

#### · Body protection: Protective work clothing.

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

Form:	Liquid
Colour:	Colourless - slightly yellow



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· Odour:	Citrus
· Odour threshold:	Not determined
· pH value:	Not applicable
· Change in condition	
Melting/freezing point:	- 74S
Initial boiling point or boiling range:	176 - 178°C
· Flash point:	51S (closed cup)
· Auto-ignition temperature:	245S
· Decomposition temperature:	Not determined
· Explosive properties:	The substance does not contain any chemical groups associated with explosive properties
· Oxidising properties:	The substance does not contain any chemical groups associated with oxidising properties
· Vapour pressure:	2 hPa (25S)
· Density	
Relative density: Vapour	0.84 - 0.86 (20S)
density:	Not determined
· Evaporation rate:	Not determined
· Solubility(ies) in water:	5.69 mg/L (25S)
· Partition coefficient: n-octanol/water: log Kow =	4.38 (37S)
· Viscosity	
Dynamic:	0.846 mPa.s (25S) (l-limonene)
· 9.2 Other information	No other data

## SECTION 10: Stability and reactivity

### · 10.2 Chemical stability

Product stable under storage and handling conditions according to specifications (see section 7).

### · 10.3 Possibility of hazardous reactions

No hazardous reactions known except those with incompatible products listed in point 10.5.

### · 10.4 Conditions to avoid

Keep away from any flame or source of sparks.

### · 10.5 Incompatible materials

Strong acids

Strong oxidants.

### · 10.6 Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

### · 11.1 Information on toxicological effects

· Acute toxicity Based on available data, the classification criteria are not met.

#### · LD<sub>50</sub>/LC<sub>50</sub> values relevant for classification:

Oral	LD <sub>50</sub>	S 2 000 mg/kg (rat) (OECD 423)
Dermal	LD <sub>50</sub>	S 5 000 mg/kg (rabbit)



(\*) Oral acute toxicity study performed on a multiconstituent substance containing d-limonene as a major constituent. Older assays carried out on d-limonene support this result (LD<sub>50</sub> rat > 5 000 mg/kg).

• **Skin corrosion/irritation:**

Moderate irritating effects were observed on rabbits in an in vivo primary skin irritation study conducted according to OECD 404 Guideline.

• **Serious eye damage/irritation:**

Only slight to moderate irritating effects were observed in an acute eye irritation study conducted on rabbits, according to OECD 405 Guideline. CLP regulation No. 1272/2008 criteria for classification were not met.

• **Skin sensitisation:**

The substance was found to be skin sensitiser a the murine Local Lymph Node Assay (LLNA - OECD 429) and in other animal tests. Human studies confirmed these results.

• **Mutagenicity/genotoxicity:**

A multiconstituent substance containing d-limonene as a major constituent was not mutagenic in bacteria in a reverse mutation test (Ames test - OECD 471). Other Ames tests conducted with d-limonene itself support this result.

D-limonene did not induce mutation in two gene mutation studies in mouse lymphoma L5178Y cells.

D-limonene did not induce any genotoxic effects in an in vitro chromosome aberration test in Chinese hamster ovary cells and in several in vivo comet assays in rats and mice.

• **Carcinogenicity:**

D-limonene was tested in a 2-year oral carcinogenicity study in mice and rats. It induced a male-rat specific carcinogenic effect on kidneys which is not relevant for humans. No increased incidences of other tumors were reported.

• **Reproductive toxicity:**

No effects were observed on sexual organs in a 90-day repeated dose toxicity study conducted on rats and mice. D-limonene was not teratogenic in rabbits, mice and rats in several prenatal developmental toxicity studies.

NOAEL (rat, mouse) : 591 mg/kg body weight/day (maternal toxicity) NOAEL

(rat, mouse) : 591 mg/kg body weight/day (developmental toxicity)

• **Specific target organ toxicity - single exposure:**

No specific target organ toxicity was observed in the LD<sub>50</sub> determination studies.

• **Specific target organ toxicity - repeated exposure:**

Several oral repeated dose toxicity studies were carried out with d-limonene in different species (rat, mouse, dog). Clinical signs were only observed for doses S 1 000 mg/kg body weight/day. The most relevant NOAEL value is considered to be 500 mg/kg body weight/day from a 90-day mouse study.

• **Aspiration hazard:** If swallowed accidentally, the product may enter the respiratory tract due to its low viscosity.

• **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

According to Regulation (EC) No 1272/2008, the substance is not considered to be CMR.

## SECTION 12: Ecological information

• **12.1 Aquatic toxicity**

LC<sub>50</sub> (96 h), fish (*Pimephales promelas*): 0.702 mg/L (measured concentration - OECD 203)

EC<sub>50</sub> (48 h), daphnia (*Daphnia magna*): 0.307 mg/L (measured concentration - OECD 202)

LC<sub>50</sub> (96 h), fish: 0.46 mg/L (QSAR result)

EC<sub>50</sub> (72 h), algae (*Pseudokirchneriella subcapitata*): 0.32 mg/L (based on growth rate - measured concentration - OECD 201)

EC<sub>50</sub> (72 h), algae (*Pseudokirchneriella subcapitata*): 0.214 mg/L (based on yield - measured concentration - OECD 201)

• **Toxicity to aquatic microorganisms:**

Data relating to a multiconstituent substance containing d-limonene as a major constituent:

EC<sub>50</sub> (3 h), 209 mg/L (respiration rate - nominal concentration - OECD 209)

• **12.2 Persistence and degradability**

A multiconstituent substance containing d-limonene as a major constituent was found to be readily biodegradable: Degradation after 28 days: 80% (O<sub>2</sub> consumption - OECD 301 D - activated sludge from a domestic sewage, non-adapted).

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No experimental data available.



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## · 12.5 Results of PBT and vPvB assessment

### · PBT:

According to Annex XIII of REACH Regulation, the substance is not considered to be Persistent, Bioaccumulative and Toxic.

### · vPvB:

According to Annex XIII of REACH Regulation, the substance is not considered to be very Persistent and very Bioaccumulative.

· **12.6 Other adverse effects** No data available.

## SECTION 13: Disposal considerations

· **13.1 Waste treatment methods** National and regional regulations have to be adhered to.

· **Recommendation:** The product has to be disposed of in an authorised incinerator, according to regulation.

· **Uncleaned packaging**

· **Recommendation:** Packaging has to be sent to an authorised waste treatment facility, for recycling or disposal.

## SECTION 14: Transport information

### · 14.1 UN Number

· ADR, IMDG, IATA

UN 2319

### · 14.2 UN proper shipping name

· ADR

2319 TERPENE HYDROCARBONS, N.O.S. (d-limonene), ENVIRONMENTALLY HAZARDOUS

· IMDG

TERPENE HYDROCARBONS, N.O.S.(d-limonene), MARINE POLLUTANT

· IATA

TERPENE HYDROCARBONS, N.O.S. (d-limonene)

### · 14.3 Transport hazard class(es)

· ADR, IMDG



· Class

3 Flammable liquids

· Label

3

· IATA



· Class

3 Flammable liquids

· Label

3

### · 14.4 Packing group

· ADR, IMDG, IATA

III

### · 14.5 Environmental hazards

Environmentally hazardous substance, liquid; Marine Pollutant

· Marine pollutant:

Symbol (fish and tree)

· Special marking (ADR):

Symbol (fish and tree)

### · 14.6 Special precautions for user

Warning: Flammable liquids

· Danger code:

30



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· EMS Number:	F-E,S-D
· 14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code	Not applicable
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	D/E
· Classification code (letter/figure)	F1
· UN "Model Regulation"	UN 2319, TERPENE HYDROCARBONS, N.O.S. (d-limonene), ENVIRONMENTALLY HAZARDOUS, 3, III

## SECTION 15: Regulatory information

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

#### Regulation (EC) No 1907/2006 (REACH):

The product does not contain any of the substances included in the following lists

- Annex XIV (authorisation) / substances of very high concern (SVHC)

- Annex XVII (restrictions)

#### Directive 2012/18/EU:

Product fulfilling the criteria of hazard categories:

- P5c "Flammable liquids, category 3 (H226)",

- E1 "Hazardous to the aquatic environment in category acute 1 or chronic 1 (H400/H410)".

### · 15.2 Chemical safety assessment A Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

Information provided in this safety data sheet is based on our experience and present knowledge. It is a description of safety requirements and data given on the product and cannot be considered as specifications. They shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Version 10.4

· Previous version: 10.3 of 28/01/2022

### · Full text of H and EUH mentions indicated in sections 2 and 3:

H226: Flammable liquid and vapour H302: Harmful if swallowed

H304: May be fatal if swallowed and enters airways H315: Causes skin irritation

H317: May cause an allergic skin reaction H319: Causes serious eye irritation

H361: Suspected of damaging fertility or the unborn child H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects H411: Toxic to aquatic life with long lasting effects

### Abbreviations and acronyms:

CLP: Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging

EC<sub>50</sub>: Concentration which leads to a 50% reduction in treated organism responses compared to untreated organism responses (algae) or concentration which causes effects to 50% of the tested organisms (daphnids)

LC<sub>50</sub>: Lethal concentration for 50% of exposed animals

LD<sub>50</sub>: Lethal dose for 50% of animals exposed by oral or dermal route LLNA:

Local Lymph Node Assay

NOAEL: No Observed Adverse Effect Level

OECD: Guidelines from the Organisation for Economic Co-operation and Development PBT:

Persistent, Bioaccumulative and Toxic substance

vPvB: very Persistent and very Bioaccumulative substance SVHC:

Substances of Very High Concern

Flam. Liq. 3: Flammable liquids, Category 3 Skin Irrit.

2: Skin corrosion/irritation, Category 2 Skin Sens. 1B:

Skin sensitisation, Category 1B Asp. Tox. 1: Aspiration

hazard, Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - Acute Hazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

### Sources:

Literature and company data REACH dossier data

### Modified data compared to the previous version:

Update according to 12th ATP of CLP Change in additional

information (section 2) Update of section 3

End of the safety data sheet