HIMALAYA TERPENES PVT. LTD.

201/5, Jogani Industrial Estate, V N Purav Marg, Chunabhatti Mumbai – 400022.

Tel : +91-22-24056704/05 Fax: +91-22-24056700 Email : info@himalayaterpene.com

MATERIAL SAFETY DATA SHEET

ALPHA PINENE

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

PRODUCT NAME	ALPHA PINENE
SUPPLIER	M/S. HIMALAYA TERPENES PVT. LTD. UNIT NO. 201, BLDG. NO. 5, JOGANI INDL. COMPLEX, V. N. PURAV MARG, SION – CHUNABHATTI, MUMBAI – 400 022

2. COMPOSITION / INFORMATION IN INGREDIENTS:

EU INDEX No.	650-002-00-6
EEC (EINECS) No.	232-350-7
CAS No.	8006-64-2
COMPOSITION COMMENTS	Contains Pinenes in varying percentages and other terpenes.

3. HAZARDS IDENTIFICATION:

Flammable. Harmful by inhalation, if contact with skin and if swallowed. Irritating to eyes and skin. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment, Harmful: may cause lung damage if swallowed.

4. FIRST AID MEASURES:

GENERAL	:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
IN HALATION	:	Move affected person to fresh air. If recovery not rapid, seek medical attention.
INGESTION	:	DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink – (approx 500 ml). Keep patient at rest and obtain medical attention.
SKIN	:	Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention. Launder clothing before re-use.
EYES	:	Rinse immediately with plenty of water for at least 5 minutes lifiting the eye lids. Seek medical attention. Continue to rinse.

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TURPENTINE OIL

5. FIRE FIGHTING MEASURES:

EXTINGUSHING MEDIA	:	Dry chemicals, sand, dolomite etc. Halon, Powder, foam or CO_2
SPECIAL FIRE FIGHTING PROCEDURES	:	Use gentle application of water spray to keep exposed containers cool or to dissipate vapour. Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations.
UNUSUAL FIRE & EXPLOSION HAZARDS	:	May explode when heated or when exposed to flames or sparks. Vapour may travel considerable distance to source of ignition and flash back.
HAZARDOUS COMBUSTION PRODUCTS	:	Burning will produce hydrocarbons and oxides of carbon.
PROTECTIVE MEASURES IN FIRE	:	Fire fighters should wear self – contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL	:	Wear appropriate protective clothing. Eliminate all sources of ignition. Do not breathe vapour or fumes.
PRECAUTIONS TO PROTECT ENVIRONMENT	:	Prevent contamination of soil, drains and surface water
SPILL CLEANUP METHODS	:	Take-up spillage with absorbent, inert material and place in a suitable and closable labeled container for recovery or disposal. Do not use combustible materials (such as sawdust) to soak-up spillages. Wash the area clean with water and detergent, observing environmental requirements. Ventilate residual vapour of fumes.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS	:	HANDLING – Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Spillages will create a fire hazard. Avoid vapour formation and ignition sources. Avoid inhalation of vapours. Ensure good ventilation and local exhaust extraction in work place. (engineering controls must be to explosion/flameproof standard). Earth container and transfer equipment to eliminate accumulation of static charge.
STORAGE PRECAUTIONS	:	Store in a cool, dry, well ventilated place, in securely closed original container. Flammable / combustible – Keep away from oxidising agents, heat and flames.
STORAGE CRITERIA	:	Flammable liquid storage.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
TURPENTINE OIL	8006-64-2	OES	100 ppm	150 ppm

VENTILATION	:	Provide adequate general and local exhaust ventilation. Work in a fume cupboard or use local exhaust ventilation.
RESPIRATORS	:	For Short or work, a suitable RPE fitted with a combination charcoal or organic vapour cartridge is recommended.

TURPENTINE OIL

PROTECTIVE GLOVES	:	Use impervious gloves made of butyl rubber or PVC.
EYE PROTECTION	:	Approved chemical safety goggles or face protection.
OTHER PROTECTION	:	Use engineering controls to reduce air contamination to permissible exposure level. Wear personal protective equipment appropriate to the quantity of material handled.
HYGIENIC WORK PRACTICES	:	SKIN PROTECTION – apply barrier cream to hands and exposed skin.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE	:	Clear colourless, mobile liquid with characteristic odour.		
BOILING POINT (^{o}C, interval)	:	~ 157		
DENSITY / SPECIFIC GRAVITY (g/ml)	:	0.86 – 0.87	Temperature (^{o}C) :	20
VAPOUR DENSITY (air =1)	:	4.84		
VOLATILE BY VOL. (%)	:	97.5		
FLASH POINT (^{o}C)	:	~ 35	Method :	CC (Closed cup).
AUTO IGNITION TEMP. (^{o}C)	:	253		
FLAMMBILITY LIMIT – LOWER (%):		0.8		
FLAMMABILITY LIMITE – UPPER (%) :		6.0		

10. STABILITY AND REACTIVITY:

STABILITY	:	Stable under normal conditions of use.
CONDITIONS TO AVOID	:	Avoid heat, flames and other sources of ignition. Avoid accumulation of static electricity.
MATERIALS TO AVOID	:	Oxidising agents. Strong acids. Aluminium Chloride.
HAZARDOUS DECOMP. PRODUCTS	:	Thermal decomposition or burning will release oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

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TOXICOLOGICAL DATA	:	LD50. Oral. Rat. 5760 mg / kg
INHALATION	:	May cause transient irritation to the respiratory system. Exposure to high vapour concentration may cause effects similar to those of ingestion.
INGESTION	:	May cause nausea, vomiting, dizziness and depression of CNS. Aspiration during swallowing or vomiting may severely damage the lungs.
SKIN	:	May be absorbed through skin. May cause sensitization by skin contact. Repeated or prolonged contact may cause mild irritation and / or drying (defatting) of skin.
EYES	:	May cause transient eye irritation or damage.
OTHER HEALTH EFFECTS	:	Has been found to cause cancer in laboratory animals

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ROUTE OF ENTRY	:	Inhalation.

TURPENTINE OIL

12. ECOLOGOICAL INFORMATION:

ECOLOGICAL INFORMATION	:	Toxic to aquatic organisms. Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination.

13. DISPOSAL CONSIDERATION:

DISPOSAL METHODS	:	This material and / or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.
WASTE CLASS	:	WASTE CODE : 0705** HAZARDOUS PROPERTY : H3-A, H5, H14.

14. TRANSPORT INFORMATION :

LABEL FOR CONVEYANCE:





ADR CLASS No.	:	3
ADR CLASS	:	Class 3 : Flammable liquids.
Adr item nO.:	:	31^{o}(C)
HAZARD No. (ADR)	:	30 Flammable liquid (flash-point between 23^{o}C and 61^{o}C, inclusive) or flammable liquid or solid in the molten state with a flash-point above 61^{o}C, heated to a temperature equal to or above its flash-point, or self heating liquid.
ADR MARGINAL	:	2301
ADR LABEL No.	:	3
HAZCHEM CODE	:	3Y
PROPER SHIPPING NAME I	:	TURPENTINE
UN No. SEA	:	UN 1299
IM DG CLASS	:	3.3

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IM DG PAGE No.	:	3391
IM DG PACK GR.	:	III
MARINE POLLUTANT	:	Yes.
UN No., AIR	:	UN-ID 1299
IC AO CLASS	:	3

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AIR PACK GR. : III

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY :





RISK PHRASES : R-10 Flammable.
R-20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R-36/38 Irritating to eyes and skin.
R-43 May cause sensitization by skin contact.
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R-65 Harmful: may cause lung damage if swallowed.

SAFETY PHRASES : S-2 Keep out of reach of children.
S-36/37 Wear suitable protective clothing and gloves.
S-46 If swallowed seek medical advice immediately and show this container label.
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.
S-62 If swallowed, do not induce vomiting. Seek medical advice immediately and show the container or label.

UK REGULATORY REFERENCES : Classification, Packaging and Labelling Regulations 1984. Chemicals (Hazard Information & Packaging) Regulations 1993.

16. OTHER INFORMATION:

INFORMATION SOURCES : This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS : Edition 01; Revised item (s):

ISSUED BY : MK

SDS No. : 521

DATE : 12/07/02

DISCLAIMER : The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of M/s. Himalaya Terpenes Pvt. Ltd. knowledge correct at the

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time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations.
For any further information, please contact the supplier.