



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Pine Oil 22% *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 8002-09-3

EC 232-350-7

SIGNAL WORD **DANGER**

GHS07

Harmful / Irritant

GHS09

Environmental Hazard

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Pine Oil 22%
Product Type	Pine oil aqueous/terpene grade
Chemical Family	Terpene alcohol mixture
CAS No.	8002-09-3
EC No.	232-350-7
Intended Use	Industrial / professional use as listed on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm grade suitability before regulated or consumer use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/pine-oil-22
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Aquatic Chronic 3

Signal Word	WARNING
GHS Pictograms	GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)



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HAZARD STATEMENTS

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation
- H412 — Harmful to aquatic life with long lasting effects

PRECAUTIONARY — PREVENTION

- P260 — Do not breathe vapours or spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P312 — IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P302+P352 — IF ON SKIN: Wash with plenty of water.
- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P321 — Specific treatment (see supplemental first aid on this label).
- P330 — Rinse mouth.
- P331 — Do NOT induce vomiting.
- P333+P313 — If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 — If eye irritation persists: Get medical advice/attention.
- P362+P364 — Take off contaminated clothing and wash it before reuse.
- P391 — Collect spillage.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.



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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Pine oil / terpene alcohols	8002-09-3	232-350-7	~22	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); Skin Sens. 1 (H317); Aquatic Chronic 3 (H412)
Water / diluent	7732-18-5	231-791-2	Balance (~78)	Not classified

Percentages are approximate by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Move to fresh air. If symptoms persist, obtain medical attention. Do not induce vomiting where aspiration hazard is possible.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with water and soap. Seek medical attention if symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice.
Note to Physician	Treat symptomatically based on exposure route and product hazards.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, or carbon dioxide (CO ₂). Cool exposed containers with water spray.
Unsuitable Media	Direct high-pressure water jet (may spread the burning material).
Specific Hazards	Vapours may form explosive mixtures with air. Containers may rupture when exposed to heat. Combustion produces carbon oxides and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Evacuate non-essential personnel.
Special Procedures	Prevent contaminated fire-fighting run-off from entering drains and waterways. Cool tanks/drums exposed to fire with water spray from a safe distance.



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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate ignition sources. Ensure adequate ventilation. Bond and ground equipment. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. The product is classified as harmful to the aquatic environment.
Containment / Clean-up	Absorb with inert material (sand, vermiculite, earth). Collect into labelled containers for disposal through an approved waste contractor.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use explosion-proof ventilation and grounded equipment. Keep away from heat, sparks, open flames and oxidisers.
Hygiene	Wash hands after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using.
Storage Conditions	Store in original, tightly closed compatible containers. Inspect containers regularly for leakage or damage.
Storage Temperature	Store at ambient temperature unless supplier instructions specify otherwise.
Incompatible Materials	Strong oxidisers and product-specific incompatible substances; see supplier SDS before use.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Pine oil (CAS 8002-09-3): No established OSHA PEL or ACGIH TLV. Apply ALARA / good industrial hygiene practice. Verify regional OEL from supplier/COA before use. Water (CAS 7732-18-5): Not classified.
Engineering Controls	Use closed handling systems or local exhaust ventilation for mist, vapour or aerosol. Use explosion-proof ventilation and grounding where applicable.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge or P95/P100 particulate filter as



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applicable. Use SCBA in emergencies.

Hand / Eye / Skin

Gloves: chemical-resistant nitrile, butyl, neoprene, PVC or laminate; select for breakthrough time. Eyes/Face: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant apron and safety footwear. Provide eyewash station and safety shower.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow liquid / emulsion
Odour	Characteristic pine/terpene odour
Odour Threshold	Not established
pH	Approximately 6.5–8.0 (aqueous solution, 22% grade); verify from supplier COA/SDS.
Melting / Freezing Point	Not established (aqueous mixture, no defined freeze point at 22% terpene)
Boiling Point / Range	~100–220°C (initial boil near 100°C due to aqueous phase; terpene alcohols boil in the 200–220°C range)
Flash Point	~62–65°C (closed cup, estimated for 22% terpene aqueous blend; confirm with supplier COA — flagged for verification)
Auto-ignition Temperature	Not established; typically >250°C for terpene alcohols — confirm from supplier
Flammability Limits	LEL / UEL not established for the 22% aqueous blend; concentrated pine oil LEL ~0.8% v/v — confirm from supplier
Vapour Pressure	Lower than pure terpene component due to aqueous dilution; not established for this grade. Confirm from supplier.
Vapour Density (air = 1)	Terpene alcohol vapour > 1 (heavier than air); not established for this aqueous grade
Relative Density	~0.93–0.96 g/cm ³ at 20°C (typical for 22% pine oil aqueous grade; confirm from supplier COA)
Solubility in Water	Partly soluble / dispersible
Log Pow (Partition Coeff.)	Not established for this commercial aqueous grade; α-terpineol log Pow ≈1.8
Evaporation Rate	Not established (aqueous grade evaporates with water carrier; terpene fraction slower)
Viscosity	Not established for supplied commercial grade; confirm from supplier



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VOC Content	Assess under applicable local VOC rules; the terpene fraction (~22%) constitutes the VOC component
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SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions.
Conditions to Avoid	Avoid heat, ignition sources, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Avoid contact with concentrated acids and halogens. Reactive with aluminium chloride ($AlCl_3$) under elevated temperature – not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides and irritating or toxic fumes may be formed in fire.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Not precisely established for this 22% aqueous grade. α -Terpineol (major component): LD50 oral rat ~4,300 mg/kg (relatively low acute oral toxicity). Not classified for acute oral toxicity under GHS.
Acute Dermal Toxicity	Not precisely established for this grade. Not classified for acute dermal toxicity under GHS. May cause irritation on prolonged or repeated contact.
Acute Inhalation Toxicity	Not precisely established. Vapours may irritate the respiratory tract. Not classified for acute inhalation toxicity under GHS.
Skin Irritation	Causes skin irritation. Classified Skin Irrit. 2 (H315). Remove contaminated clothing and wash thoroughly.
Eye Irritation	Causes serious eye irritation. Classified Eye Irrit. 2 (H319). Rinse with water for at least 15 minutes.
Sensitisation	May cause an allergic skin reaction. Classified Skin Sens. 1 (H317). Terpene components are known skin sensitisers.
Carcinogenicity	Not classified. No evidence of carcinogenicity identified for pine oil under reviewed sources.
Mutagenicity	Not classified. No evidence of mutagenicity identified for pine oil under reviewed sources.



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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412): Harmful to aquatic life with long lasting effects. Pine oil / terpene alcohols are toxic to aquatic organisms. Prevent release to water.
Persistence / Degradability	Terpene alcohols are expected to be biodegradable under aerobic conditions. Specific ready biodegradability data not confirmed for this grade — obtain from supplier or ECHA.
Bioaccumulation	α -Terpineol log Pow ~1.8: low to moderate bioaccumulation potential. BCF data not established; obtain from supplier where required.
Mobility in Soil	Partly water-soluble / dispersible; moderate mobility in soil. Prevent release to soil and groundwater.
Other Adverse Effects	Avoid uncontrolled release to the environment. Manage releases and waste under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorized waste contractor in accordance with local regulations. Do not dispose of down drains.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed. Rinse three times before recycling or disposing.
Indian Regulations	Follow Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 and applicable State Pollution Control Board requirements.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	N/A

Classification based on the 22% aqueous pine oil grade with estimated flash point $>60^{\circ}\text{C}$. If flash point is confirmed $\leq 60^{\circ}\text{C}$ by supplier COA, the product may require classification as a flammable liquid (UN1197 or UN1993). Verify flash point and terpene



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content with supplier before each shipment and confirm current carrier/regulatory requirements.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Classified and labelled according to GHS/CLP classification listed in Section 2. Observe REACH requirements (registration, authorisation, restriction) where applicable for EU market. Pine oil (CAS 8002-09-3) is a UVCB substance — confirm REACH registration status with supplier.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory / SNUR status before US import or distribution.
India	Observe applicable Manufacture, Storage and Import of Hazardous Chemical (MSIHC) Rules 1989, Hazardous and Other Wastes Rules 2016, Environment Protection Act, and workplace chemical, storage and transport requirements.
Other Jurisdictions	China (GB Standards): apply applicable GB/T SDS and classification requirements. Canada WHMIS/HPR: classify/label under WHMIS 2015/HPR; bilingual SDS/label may be required. Australia (AICS): check inventory status before export or import. GCC / Middle East: observe applicable GHS-aligned local requirements.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16-section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)
Disclaimer	Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- H315 — Causes skin irritation
- H317 — May cause an allergic skin reaction
- H319 — Causes serious eye irritation



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