



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Pine Oil 42% *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 8002-09-3

EC 232-350-7

SIGNAL WORD **DANGER**

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS09

Environmental Hazard

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

Product Name	Pine Oil 42%
Product Type	Pine oil high-strength 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-42
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

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

Signal Word **WARNING**



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GHS Pictograms	GHS02 (Flammable Liquid) GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)
Other Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- 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

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- 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+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.



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- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Pine oil / terpene alcohols (principal active)	8002- 09-3	232- 350-7	Approx. 42% active	Flam. Liq. 3; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Aquatic Chronic 3
Water / diluent (balance)	7732-18- 5	231-791- 2	Balance	Not classified

Percentages are approximate by volume. 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 soap and water. 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 immediately.
Note to Physician	Treat symptomatically based on exposure route and product hazards. Risk of aspiration if vomiting occurs.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, carbon dioxide (CO ₂). Cool exposed containers with water spray.
Unsuitable Media	Direct high-pressure water jet (may spread burning liquid).



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Specific Hazards	Flammable vapours may form explosive mixtures with air; vapours can travel to ignition sources and flash back. Containers may rupture when heated. Combustion produces carbon oxides and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA).
Special Procedures	Evacuate non-essential personnel. Use grounded/explosion-proof equipment. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ensure adequate ventilation. Bond/ground equipment to prevent static discharge. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Notify authorities if significant release occurs.
Containment / Clean-up	Absorb spill with inert material (sand, earth, vermiculite). Collect material into labelled, compatible containers for disposal through an approved waste contractor. Avoid generating vapours.
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. Use non-sparking tools.
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	Ambient temperature (unless supplier specification states otherwise). Keep cool and away from direct sunlight.
Incompatible Materials	Strong oxidising agents (nitric acid, permanganates, peroxides, halogens). Avoid contact with concentrated acids.
Segregation	Segregate from food, drink, animal feed and incompatible chemicals.



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SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Pine oil (CAS 8002-09-3): No specific OEL universally established. Apply ALARA / good industrial hygiene practice. Verify any applicable local OEL (OSHA/NIOSH/ACGIH/EU/India) before use.
Engineering Controls	Use closed handling systems or local exhaust ventilation for vapour/mist control. Use explosion-proof ventilation and grounding where flammable vapours may be present.
Respiratory Protection	Where ventilation is inadequate, use a NIOSH/EN-approved organic-vapour respirator. Use SCBA for emergency/high-concentration situations.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene or PVC); select for appropriate breakthrough time. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield for splash risk. Body: chemical-resistant clothing/apron and safety footwear; antistatic PPE where flammable vapours may occur. Provide eyewash and safety shower at the workstation.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow terpene liquid.
Odour	Characteristic pine/terpene odour.
Odour Threshold	Not established.
pH	Not applicable (non-aqueous liquid). For aqueous dilutions, verify from supplier COA/SDS.
Melting / Freezing Point	Not established (terpene alcohol mixture; no single melting point).
Boiling Point / Range	Approx. 200–220°C (typical for terpene alcohols; verify from supplier COA). [FLAG: supplier confirmation required]
Flash Point	Approx. 77°C (closed cup, typical for Pine Oil 42% consistent with Flam. Liq. 3 / H226 classification). [FLAG: supplier COA confirmation required]
Auto-ignition Temperature	Not established. [FLAG: supplier or test data required]
Flammability Limits	Not established for this commercial grade. [FLAG: supplier data required]
Vapour Pressure	Low; < 1 mmHg at 20°C (typical for terpene alcohols). [FLAG: supplier confirmation required]



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Vapour Density (air = 1)	Greater than 1 (terpene alcohols heavier than air). [FLAG: supplier confirmation required]
Relative Density	Approx. 0.93–0.94 g/cm ³ at 20°C (typical for pine oil 42% grade). [FLAG: supplier COA confirmation required]
Solubility in Water	Partly soluble / dispersible.
Log Pow (Partition Coeff.)	Not established for this commercial grade.
Evaporation Rate	Not established. Slow (high boiling point).
Viscosity	See supplier specification.
VOC Content	Assess under applicable local VOC regulations.

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. Avoid direct sunlight and extreme temperatures.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids and halogens. Aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage.
Hazardous Decomposition	Carbon oxides (CO, CO ₂) and irritating or toxic fumes may form in fire or thermal decomposition.
Hazardous Reactions	No hazardous reactions under normal storage and handling conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	May be harmful if swallowed. Risk of aspiration into lungs. Endpoint-specific LD ₅₀ data: see supplier/test confirmation. Observe H226 classification.
Acute Dermal Toxicity	May irritate skin on prolonged/repeated contact. Specific LD ₅₀ data not established for this commercial grade; see supplier confirmation.
Acute Inhalation Toxicity	Vapours/aerosols may irritate the respiratory tract. Solvent vapours can affect the central nervous system at high concentrations. Specific LC ₅₀ data not established; verify from supplier.
Skin Irritation	Causes skin irritation (H315). May cause an allergic skin reaction (H317).
Eye Irritation	Causes serious eye irritation (H319).



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Sensitisation	May cause an allergic skin reaction (H317; Skin Sens. 1).
Carcinogenicity	Not classified. No evidence of carcinogenicity in available public data for pine oil (CAS 8002-09-3).
Mutagenicity	Not classified. No evidence of mutagenicity/genotoxicity in available public data.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412). Harmful to aquatic life with long lasting effects. Prevent release to aquatic environments. LC ₅₀ /EC ₅₀ /NOEC endpoint data: obtain from supplier/ECHA/PubChem where required.
Persistence / Degradability	Terpene alcohols are generally considered biodegradable; however ready-biodegradability should not be assumed without verified test data. Obtain supplier or ECHA data where required.
Bioaccumulation	Bioaccumulation potential not fully established for this commercial UVCB mixture. Use verified log K ^{OW} / BCF data from supplier where available.
Mobility in Soil	Partly soluble in water; 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 authorised waste contractor in accordance with local hazardous waste regulations. Do not pour down drains or to soil.
Contaminated Packaging	Empty containers may retain product residues; handle as hazardous until professionally cleaned or disposed of. Do not reuse containers for food or beverage.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and State Pollution Control Board requirements. Assign waste code according to actual process and local regulation.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1993	UN 1993	UN 1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S. (Pine Oil)	FLAMMABLE LIQUID, N.O.S. (Pine Oil)	FLAMMABLE LIQUID, N.O.S. (Pine Oil)
Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	No	No	—
Tunnel Restriction (ADR)	D/E	—	—
EmS (IMDG)	—	F-E, S-E	—

Use UN 1993 PG III only if the supplied grade meets Flam. Liq. 3 criteria (flash point >60°C and ≤93°C). Use UN-certified drum for international transport, labelled with Class 3 placard, UN 1993, PG III, and product name. Verify current carrier and modal rules before shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Observe REACH registration and CLP requirements where applicable. Classified and labelled per GHS/CLP classification listed in Section 2. Observe applicable workplace chemical, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom-aligned 16-section SDS format. Verify TSCA inventory/SNUR status before US import or distribution; UVCB status may require supplier confirmation.
India	Observe applicable MSIHC Rules, 1989; Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; Factories Act; PCB/CPCB effluent and waste disposal requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify/label under WHMIS using Section 2 classification; Canadian sale may require bilingual SDS/label and ingredient disclosure. Australia (AICS): check inventory status before export or import. GCC/Middle East: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of local OELs, transport class, waste code, inventory status and restrictions.



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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

- H226 — Flammable liquid and vapour
- 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