



SUPREME PETRO
CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Mineral Turpentine Oil (MTO)
SDS

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS 64742-82-1 EC 265-185-4 SIGNAL WORD DANGER

GHS02

Flammable Liquid

GHS07

Harmful / Irritant

GHS08

Health Hazard

GHS09

Environmental
Hazard

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

Product Name	Mineral Turpentine Oil (MTO)
Product Type	Hydrotreated light naphtha / petroleum spirits
Chemical Family	Petroleum hydrocarbon solvent
CAS No.	64742-82-1
EC No.	265-185-4
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/mineral-turpentine-oil-mto
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

Flam. Liq. 3; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2

GHS Classification	Flam. Liq. 3; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2
Signal Word	WARNING
GHS Pictograms	GHS02 (Flammable) GHS07 (Harmful / Irritant) GHS08 (Health Hazard) GHS09 (Environmental Hazard)
Other GHS Hazard Classes	Not classified for unlisted hazard classes based on reviewed public/source data.

HAZARD STATEMENTS

- H226 — Flammable liquid and vapour
- H304 — May be fatal if swallowed and enters airways
- H336 — May cause drowsiness or dizziness
- H411 — Toxic 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.



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- 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.
- 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
Hydrotreated light naphtha / petroleum spirits	64742-82-1	265-185-4	~100	Flam. Liq. 3; Asp. Tox. 1; STOT SE 3; Aquatic Chronic 2

Percentages are 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 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 immediately.
Note to Physician	Aspiration hazard (H304) — do not induce vomiting. Treat symptomatically based on exposure route and product hazards.



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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Alcohol-resistant foam, dry chemical powder, or carbon dioxide (CO ₂). Cool containers exposed to heat with water spray.
Unsuitable Media	Direct high-pressure water jet where it may spread the material.
Specific Hazards	Flammable vapours may form explosive mixtures with air; vapours may travel to ignition sources and flash back. Containers may rupture when heated. Combustion produces carbon oxides and toxic/irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA). Use grounded/explosion-proof equipment.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Eliminate all ignition sources. Ventilate area. Bond/ground equipment. Wear appropriate PPE (see Section 8).
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Report spills to environmental authorities as required.
Containment / Clean-up	Absorb with inert material (sand, vermiculite). Collect into labelled containers for disposal through an approved waste contractor. Avoid generating sparks.
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 ignition sources 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.



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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	CAS 64742-82-1 (hydrotreated light naphtha / petroleum spirits): Use verified local OEL (8h TWA) if established; otherwise apply ALARA / good industrial hygiene practice. Confirm STEL/ceiling with local OSHA/NIOSH/ACGIH/EU/India authority. Supplier/regional OEL confirmation required.
Engineering Controls	Use closed handling systems and local exhaust ventilation for vapour/mist/aerosol control. Use explosion-proof ventilation and grounding for flammable liquids.
Respiratory Protection	If ventilation is inadequate, use a NIOSH/EN-approved respirator with organic vapour cartridge. Use SCBA for emergency response.
Hand / Eye / Skin	Hands: chemical-resistant gloves (nitrile, butyl, neoprene, PVC or laminate); select breakthrough time for the task. 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.
Hygiene Measures	Provide eyewash and safety shower where appropriate. Wash after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear colourless hydrocarbon liquid.
Odour	Petroleum solvent odour.
Odour Threshold	Not established.
pH	Not applicable (non-aqueous hydrocarbon). Not applicable unless supplied as an aqueous solution.
Melting / Freezing Point	See supplier specification (typically below –60°C for petroleum spirits).
Boiling Point / Range	Approx. 155–205°C (typical for MTO/mineral turpentine; grade-dependent — confirm with supplier COA). [CORRECTED: source value of 38–45°C was a Section 9 shift error; that value belongs to Flash Point.]



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Flash Point	Approx. 38–45°C (closed cup, grade-dependent; consistent with Flam. Liq. 3 classification H226). [CORRECTED: source had this under Boiling Point.]
Auto-ignition Temperature	Approx. 230–260°C (typical for petroleum spirits / hydrotreated naphtha). [FLAG: confirm with supplier COA.]
Flammability Limits	LEL approx. 0.7% v/v; UEL approx. 6% v/v (typical for petroleum spirits). [FLAG: confirm with supplier.]
Vapour Pressure	Approx. 2–10 mmHg at 20°C (typical for MTO; grade-dependent). [FLAG: confirm with supplier COA.]
Vapour Density (air = 1)	Approx. 4–5 (heavier than air; typical for C9–C12 petroleum spirits). [CORRECTED: source value 0.76–0.80 under this label is the Relative Density.]
Relative Density	Approx. 0.76–0.80 at 15°C (typical for MTO). [CORRECTED: source had this value under Vapour Density.]
Solubility in Water	Insoluble. [CORRECTED: source had “Insoluble” under Relative Density label.]
Log Pow (Partition Coeff.)	Not established for supplied commercial grade (UVCB substance — requires formulation data).
Evaporation Rate	See supplier specification.
Viscosity	See supplier specification (typically 1–2 cSt at 40°C for MTO grade).
VOC Content	Assess under applicable local VOC rules (MTO is substantially VOC by most regulatory definitions).

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.



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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Not classified (oral). Aspiration hazard is classified — see H304. Do not induce vomiting; aspiration into lungs may be fatal.
Acute Dermal Toxicity	Not classified (dermal). Endpoint-specific numeric data requires supplier/test confirmation.
Acute Inhalation Toxicity	Not classified (acute inhalation). Vapours may cause drowsiness or dizziness at elevated concentrations (STOT SE 3, H336).
Skin Irritation	May cause mild skin irritation on prolonged or repeated contact. Endpoint-specific data requires supplier confirmation.
Eye Irritation	May cause mild eye irritation. Endpoint-specific data requires supplier confirmation.
Sensitisation	Not classified. Endpoint-specific assessment requires supplier/test data.
Carcinogenicity	Hydrotreated petroleum streams — not classified as carcinogen. Severely hydrotreated naphtha is not listed as Category 1A/1B carcinogen under GHS/CLP. Supplier confirmation required.
Mutagenicity	Not classified. Endpoint-specific assessment: see Section 2 classification and Section 3 ingredients. Additional numeric data requires supplier/test confirmation.
Aspiration Hazard	Classified H304 (Asp. Tox. 1). May be fatal if swallowed and enters airways. Do not induce vomiting after ingestion.
STOT — Single Exposure	STOT SE 3 (H336): May cause drowsiness or dizziness.
STOT — Repeated Exposure	Not classified. Supplier/test data required for confirmation.
Reproductive Toxicity	Not classified. Supplier/test data required for confirmation.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 2 (H411). Prevent release; obtain LC50/EC50/NOEC values from supplier/ECHA/PubChem where required for site-specific assessment.
Persistence / Degradability	If not verified, do not assume ready biodegradability. Use supplier, ECHA or PubChem data where available.
Bioaccumulation	Use verified log Kow/BCF data where available. UVCB/petroleum materials require supplier formulation data for confirmed BCF.
Mobility in Soil	Assess from solubility, adsorption potential and product form. Insoluble in water; may float on surface water. Prevent release to soil



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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 regulations.

Contaminated Packaging

Empty containers may retain residues; handle as hazardous until cleaned or disposed of through an approved contractor.

Indian Regulations

Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, Pollution Control Board requirements, and local storage/transport regulations. Assign waste code according to actual process and local regulation.

SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	UN 1300	UN 1300	UN 1300
Proper Shipping Name	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE
Class	3	3	3
Packing Group	III	III	III
Marine Pollutant	Verify — likely Yes if IMDG criteria met (H411)	Verify — likely Yes if IMDG criteria met (H411)	—
Tunnel Restriction (ADR)	D/E	—	—
EmS (Sea / IMDG)	—	F-E, S-E	—

Packaging: approved compatible container appropriate to the product. UN-certified drum required for international transport. Drum must be labelled with Class 3 placard, UN 1300, PG III, and product name. Verify current carrier rules before shipment. Aquatic hazard present; confirm marine pollutant status from IMDG/supplier data. Note: source SDS stated PG II on packaging note — corrected to PG III consistent with transport table.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP

Observe REACH and CLP requirements where applicable. Classified and labelled according to the product-specific GHS/CLP



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	classification listed in Section 2. Observe applicable workplace chemical, VOC and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 aligned 16–section SDS format.
India	Observe applicable MSIHC Rules, Factories Act, Hazardous Waste Rules, Pollution Control Board requirements, storage, transport and environmental regulations.
Canada WHMIS / HPR	Classify/label under WHMIS 2015/HPR using Section 2 classification. Canadian sale may require bilingual SDS/label and ingredient disclosure.
China (GB Standards)	Use applicable GB/T SDS and classification requirements where marketed.
Middle East / GCC	Observe applicable GHS–aligned local requirements.
TSCA (USA)	Verify TSCA inventory/SNUR status before US import or distribution. Mixture/UVCB status may require supplier confirmation.
Australia (AICS)	Check AICS inventory status before export or import.
Regulatory Scope Limitation	Final market placement requires confirmation of inventory status, local OELs, transport class, waste code and restrictions. No product–specific special regulatory note beyond the classification in Section 2.

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)
Key Sources	SPC product page; consolidated SDS audit; UN GHS Rev.11 Annex 4; OSHA HCS Appendix D; EU REACH Annex II/CLP; Canada WHMIS/HPR; PubChem, ECHA, NIOSH/OSHA, CAMEO and public supplier SDS/transport references. Accessed June 2026.
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 with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury or damage resulting from reliance on this information.



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FULL TEXT OF H-STATEMENTS

- H226 — Flammable liquid and vapour
 - H304 — May be fatal if swallowed and enters airways
 - H336 — May cause drowsiness or dizziness
 - H411 — Toxic to aquatic life with long lasting effects
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