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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Product	Pine Oil 85%	**Revision date**	2026-11-16
Version	1.0	**Brand**	Richest

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

Product name	Pine Oil 85%
Synonyms	No data available
CAS No.	8002-09-3
EC No.	304-455-9
Molecular formula	Not applicable; UVCB/mixture with no single fixed molecular formula
Molecular weight	Not applicable; UVCB/mixture with no single fixed molecular weight
Relevant identified uses	Solvent and disinfectant; public CAS-level record also lists odorant, wetting-agent and frothing-agent uses.
Uses advised against	No specific uses advised against were identified in the reviewed sources.
Company	Richest Group
Address	No. 999, Jiangyue Rd, Minhang, Shanghai 201114, China
Telephone	0086 21 5017 5386
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Website	www.richest-group.com
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SECTION 2: Hazards identification

GHS Classification	Flammable liquids Category 3 (H226); Aspiration hazard Category 1 (H304); Skin corrosion/irritation Category 2 (H315); Skin sensitisation Category 1 (H317); Serious eye damage Category 1 (H318); Germ cell mutagenicity Category 2 (H341); Carcinogenicity Category 2 (H351); Aquatic acute/chronic hazard with long-lasting effects (H410)
Pictogram(s)	GHS02; GHS05; GHS07; GHS08; GHS09
Signal word	Danger
Hazard statement(s)	H226 Flammable liquid and vapour; H304 May be fatal if swallowed and enters airways; H315 Causes skin irritation; H317 May cause an allergic skin reaction; H318 Causes serious eye damage; H341 Suspected of causing genetic defects; H351 Suspected of causing cancer; H410 Very toxic to aquatic life with long lasting effects
Precautionary statement(s)	P201; P202; P261; P264; P272; P273; P280; P281; P302+P352; P305+P351+P338; P308+P313; P310; P321; P332+P313; P333+P313; P362; P363; P391; P405; P501
Other hazards	No other hazards were identified in the reviewed sources.

SECTION 3: Composition/information on ingredients

Component	Pine Oil 85%
CAS No.	8002-09-3
EC No.	304-455-9

SECTION 3: Composition/information on ingredients

Classification	Flammable liquids Category 3 (H226); Aspiration hazard Category 1 (H304); Skin corrosion/irritation Category 2 (H315); Skin sensitisation Category 1 (H317); Serious eye damage Category 1 (H318); Germ cell mutagenicity Category 2 (H341); Carcinogenicity Category 2 (H351); Aquatic acute/chronic hazard with long-lasting effects (H410)
Concentration	Content 85%

SECTION 4: First-aid measures

If inhaled	Inhalation: move to fresh air and keep comfortable
In case of skin contact	Skin: remove contaminated clothing and wash thoroughly with soap and water
In case of eye contact	Eyes: rinse with lukewarm water for at least 15 minutes, holding eyelids apart and removing contact lenses if easy.
If swallowed	Ingestion/aspiration: do not induce vomiting
Most important symptoms and effects	No data available
Indication of immediate medical attention	Treat symptomatically. Show this safety data sheet to medical personnel.

SECTION 5: Fire-fighting measures

Suitable extinguishing media	Use dry chemical powder, carbon dioxide, alcohol-resistant foam or dry sand. Do not use a solid water jet. Vapours are heavier than air and may flash back; combustion can produce carbon monoxide, carbon dioxide and irritant smoke. Wear SCBA and full protective clothing, cool containers with water spray from a safe distance and contain runoff.
Unsuitable extinguishing media	No data available
Special hazards arising from the chemical	No data available
Advice for firefighters	Wear self-contained breathing apparatus and protective clothing appropriate for the surrounding fire.

SECTION 6: Accidental release measures

Personal precautions and emergency procedures	Avoid contact with the material. Ensure adequate ventilation. Wear appropriate personal protective equipment.
Environmental precautions	Prevent uncontrolled release to drains, soil and watercourses.
Methods for containment and cleaning up	Eliminate ignition sources, ventilate, evacuate non-essential personnel and use PPE. Prevent entry into drains and watercourses. Contain with sand, earth or another inert non-combustible absorbent; collect in suitable closed containers for disposal and use spark-proof equipment where required.

SECTION 7: Handling and storage

Precautions for safe handling	Use adequate ventilation; avoid vapour inhalation and skin/eye contact. Ground and bond transfer containers, use spark-proof tools and explosion-proof electrical equipment where vapours may accumulate, and do not eat, drink or smoke. Store tightly closed at 5–35°C in a cool, dry, well-ventilated place away from sunlight, heat, ignition sources and oxidising agents.
Conditions for safe storage, including incompatibilities	Keep in a tightly closed suitable container in a cool, dry place, away from heat, sparks and flames.

SECTION 8: Exposure controls/personal protection	
Occupational exposure limit values	No data available
Biological limit values	No biological limit values were identified in the reviewed sources.
Appropriate engineering controls	No product-specific occupational exposure limit was established in the Suraj SDS. Use local exhaust ventilation, eyewash and safety shower. Use nitrile or neoprene gloves, side-shield safety glasses or chemical splash goggles, antistatic clothing and closed footwear. Respiratory protection is not normally required with adequate ventilation; use an organic-vapour filter mask if ventilation is insufficient.
Eye/face protection	Use safety eyewear appropriate to the risk of exposure.
Skin and body protection	Wear suitable protective gloves and clothing appropriate to the risk of exposure.
Respiratory protection	Use suitable respiratory protection if exposure limits may be exceeded or dust, mist or vapour is generated.
Thermal hazards	No specific thermal hazards were identified in the reviewed sources; see Sections 5 and 10.

SECTION 9: Physical and chemical properties	
Physical state	Colorless to light yellow clear liquid
Colour	Colourless to pale yellow; the Wintersun 85% specification states clear to light yellow.
Odour	Strong, characteristic pine/terpene odour.
Melting point / freezing point	< −50°C (generic pine-oil SDS; test method not stated).
Boiling point / boiling range	155–225°C at 760 mmHg
Flammability	Flammable liquid and vapour, GHS Category 3 (H226); vapours may form flammable/explosive mixtures with air above the flash point.
Explosion / flammability limits	Lower/upper flammability limits 0.8%/6% v/v, stated in the SDS as a typical terpene range rather than a product-specific test.
Flash point	55–84°C
Auto-ignition temperature	Approximately 240°C (generic pine-oil SDS).
Decomposition temperature	Not established in the consulted SDS.
pH	5–7 reported for an 85% product by Darwin Chemical; concentration and method were not stated. The generic SDS marks pH as not relevant for the water-insoluble organic liquid.
Viscosity	Low-viscosity mobile liquid; no numerical viscosity value reported.
Solubility	Soluble in paraffin oil, alcohol and kerosene
Partition coefficient n-octanol/water	Log Pow approximately 2.7–3.3 at 20°C, identified in the SDS as typical for terpene alcohols rather than a product-specific measurement.
Vapour pressure	<1 mmHg at 20°C (generic pine-oil SDS).
Density and/or relative density	0.875–0.940 (broad legacy-MSDS range; selected 85% SPEC uses 0.915–0.935)
Relative vapour density	>1 at 20°C; vapours are heavier than air (generic pine-oil SDS).
Particle characteristics	Not applicable — liquid product.
Refractive index	1.478–1.484

SECTION 10: Stability and reactivity	
Reactivity	Can react with strong oxidising agents; vapours can travel to an ignition source and flash back.
Chemical stability	Stable under the indicated conditions of storage, handling and use; may darken or oxidise slowly during prolonged exposure to air and light.
Possibility of hazardous reactions	No hazardous reactions leading to excessive temperature or pressure are expected under specified conditions; reaction with strong oxidising agents remains possible.
Conditions to avoid	Heat, sparks, open flames and other ignition sources; prolonged exposure to air, direct sunlight and heat.
Incompatible materials	Strong oxidising agents, strong acids and ignition sources.
Hazardous decomposition products	Combustion may produce carbon monoxide, carbon dioxide and irritant smoke/fumes.

SECTION 11: Toxicological information	
Acute toxicity	Generic pine-oil SDS: oral LD50 approximately 2500–3600 mg/kg (rat) and dermal LD50 >5000 mg/kg (rabbit), described as typical for terpene-alcohol mixtures; inhalation LC50 not established. Aspiration hazard Category 1 (H304).
Skin corrosion irritation	Causes skin irritation, Category 2 (H315).
Serious eye damage irritation	Causes serious eye irritation, Category 2 (H319) in the Suraj SDS.
Sensitization	May cause an allergic skin reaction, Skin Sensitisation Category 1 (H317).
Carcinogenicity	Classification criteria for carcinogenicity are not met based on available data; IARC not listed (Suraj SDS).
Additional information	Vapours may irritate the respiratory tract and cause headache or dizziness at high concentrations. Aspiration during ingestion or vomiting may cause chemical pneumonitis; repeated contact may cause allergic skin reactions.

SECTION 12: Ecological information	
Ecotoxicity	Toxic to aquatic life with long-lasting effects (Aquatic Chronic 2, H411). Generic SDS typical ranges, not product-specific tests: fish LC50 1–10 mg/L (96 h) and Daphnia EC50 1–10 mg/L (48 h).
Persistence degradability	Described as readily biodegradable in the generic SDS on the basis that terpene alcohols generally biodegrade readily under aerobic conditions; no product-specific test is cited.
Bioaccumulative potential	Low potential expected from Log Pow, but the SDS states that the mixture has not been extensively studied.
Mobility in soil	Expected to be moderately mobile in dry and moist soil; Koc and Henry's-law values were not established.
Other adverse effects	Not classified as PBT or vPvB based on available data. Prevent entry into drains and watercourses and contain fire-fighting runoff.

SECTION 13: Disposal considerations	
Product disposal methods	Do not discharge to drains or watercourses. Collect and dispose through a licensed hazardous-waste contractor in accordance with local regulations; permitted incineration is identified as the preferred route in the SDS. Treat empty containers as contaminated packaging because residues may remain.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal in accordance with local regulations.

SECTION 14: Transport information	
UN Number (ADR/RID, IMDG, IATA)	1272
UN Proper Shipping Name	PINE OIL
Transport hazard class(es)	3
Packing group	III
Environmental hazards / Marine pollutant	Public CAS-level GHS record assigns H410; old MSDS does not state IMDG marine-pollutant status. Marine-pollutant field must be confirmed for the 85% product before shipment.
Special precautions for user	Keep containers closed and secured during transport. Follow applicable dangerous goods regulations.

SECTION 15: Regulatory information	
Safety, health and environmental regulations specific for the product	GHS: Flammable Liquid 3 (H226), Aspiration Hazard 1 (H304), Skin Irritation 2 (H315), Eye Irritation 2 (H319), Skin Sensitisation 1 (H317), Aquatic Chronic 2 (H411). Suraj lists transport as UN1272, PINE OIL, Class 3, Packing Group III.

SECTION 16: Other information	
Full text of H-Statements	H226 Flammable liquid and vapour; H304 May be fatal if swallowed and enters airways; H315 Causes skin irritation; H317 May cause an allergic skin reaction; H318 Causes serious eye damage; H341 Suspected of causing genetic defects; H351 Suspected of causing cancer; H410 Very toxic to aquatic life with long lasting effects
Revision date	2026-11-16
Version	1.0
References	Supplier technical documents, public SDS/COA/TDS and regulatory sources reviewed. Public data citations are listed below. Public data sources: 85% Pine Oil — Product and Sales Specification: https://foreverest.net/products/turpentine-derivatives/pine-oil-85.html | Pine Oil 85% — Sales Specifications: https://www.wintersunchemical.com/products/pine-oil-85-clear-to-amber-liquid-429-lb-drum | Pine Oil 85% — Technical Data, Catalog Q133: http://darwinchemical.com/Products/Specs/Q133.html | Pine Oil — Safety Data Sheet (11 November 2026): https://www.surajchemicals.com/documents/msds/Suraj-Chemicals-Pine-Oil-MSDS.pdf | Pine Oil — Product, Specification and Transport Summary: https://www.surajchemicals.com/products/pine-oil
Abbreviations	CAS: Chemical Abstracts Service; ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road; IMDG: International Maritime Dangerous Goods; IATA: International Air Transport Association; SDS: Safety Data Sheet.
Disclaimer	The information in this SDS applies to the specified product and is provided in good faith based on information available to Richest Group at the date of issue. It describes health, safety and environmental requirements and does not constitute a guarantee of product properties. Users must assess suitability and comply with applicable regulations.