



SAFETY DATA SHEET (SDS)

SANDALWOOD OIL

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Product Identifier

Sandalwood Oil | CAS: 8006-87-9
 Version 3.0 | Issued: 2026-05-13

SECTION 1: IDENTIFICATION

Product Identifier	Sandalwood Oil
CAS Number	8006-87-9
INCI Name	Santalum Album Wood Oil
Recommended Use	Fragrance manufacturing ingredient / essential oil
Restrictions on Use	For supply to professional/industrial importing entities. Not for direct consumer sale by Sandal Oils Australia. Importing entity is responsible for downstream compliance and appropriate consumer labelling per applicable local regulations.
UFI	Not applicable at point of export. Importing entity responsible for UFI generation and ECHA Poison Centre Notification (PCN) upon entry to EU/EEA market, if applicable (applies to mixtures; confirm classification as pure substance vs mixture with importing entity).
EU Responsible Party	To be completed by the EU/EEA importing entity prior to distribution within the EU/EEA. This SDS is issued by an Australian exporter and does not constitute EU market placement by Sandal Oils Australia.
SDS Language Note	This SDS is issued in English. Importing entities are responsible for translation into official language(s) of the country of use as required by local legislation.

SECTION 2: HAZARD IDENTIFICATION

Signal Word

WARNING


GHS Classification

Skin Irritation	Category 2 (H315)
Eye Irritation	Category 2A (H319)
Skin Sensitisation	Category 1 (H317)
Aquatic Chronic Toxicity	Category 1 (H410)

Hazard Statements

Code	Statement
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.
EUH208	[EU CLP ONLY] Contains alpha-santalol and beta-santalol. May produce an allergic reaction. (Required per EU CLP Annex II for sensitising constituents present above 0.001% in classified mixtures — importing entity to verify applicability.)
EUH066	[EU CLP ONLY] Repeated exposure may cause skin dryness or cracking. (Importing entity to verify applicability based on formulation.)

Precautionary Statements

Code	Statement
P260	Do not breathe vapours or mist.
P261	Avoid breathing vapours or mist.
P264	Wash hands and exposed skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace. [EU CLP: required for Skin Sens. Cat 1]
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P391	Collect spillage. [Required for H410 under GHS/EU CLP]
P501	Dispose of contents/container in accordance with local, regional, national and international regulations.

Hazards Not Otherwise Classified (HNOC)

None identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Substance Type: Natural essential oil / UVCB substance (Substance of Unknown or Variable composition, Complex reaction products or Biological materials). Composition may vary batch-to-batch. CAS 8006-87-9 covers the whole oil.

Ingredient	CAS Number	Approx. %	REACH Reg. No.	Classification (GHS/CLP)
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Sandalwood Oil (whole)	8006-87-9	100%	Exempt (UVCB natural substance; verify with REACH Art. 2 scope upon EU import)	Skin Irrit. 2; Eye Irrit. 2A; Skin Sens. 1; Aquatic Chronic 1
Ingredient	CAS Number	Approx. %	REACH Reg. No.	Classification (GHS/CLP)
alpha-Santalol (principal constituent)	115-71-9	~40–55%	Importing entity to confirm	Skin Sens. 1 (H317); Aquatic Chronic 2
beta-Santalol (principal constituent)	77-42-9	~20–25%	Importing entity to confirm	Skin Sens. 1 (H317)
Other sesquiterpenes (trans-alpha-bergamotol, epi-beta-santalol, etc.)	Various	Balance	Importing entity to confirm	Not individually classified; present as minor constituents

Note for EU CLP: Importing entity must assess whether individual sensitising constituents (particularly alphasantalol and beta-santalol) require disclosure and labelling under Annex II (EUH208) based on concentration thresholds (typically $\geq 0.001\%$ for sensitisers in classified mixtures or $\geq 0.1\%$ if unclassified). REACH registration status of individual constituents should be verified by the EU importer.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Seek medical advice if symptoms (coughing, throat irritation, dizziness) persist.
Skin Contact	Wash thoroughly with soap and water for at least 15 minutes. Remove and wash contaminated clothing before reuse. If skin irritation or allergic reaction develops, seek medical attention.
Eye Contact	Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention if irritation persists.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel or Poison Control. Seek medical attention.

Most Important Symptoms and Effects (Acute and Delayed)

- Skin: Redness, irritation, rash, or allergic contact dermatitis on repeated exposure.
- Eyes: Redness, watering, irritation; serious eye irritation possible.
- Inhalation: Potential mild respiratory irritation at elevated concentrations.
- Sensitisation: Repeated skin exposure may lead to allergic sensitisation (delayed hypersensitivity). □
- Ingestion: Gastrointestinal irritation possible.

Advice to Physician / Healthcare Professional

Treat symptomatically. No specific antidote. For sensitisation reactions, treat as allergic contact dermatitis.

SECTION 5: FIREFIGHTING MEASURES

Suitable Extinguishing Media	Foam, dry chemical powder, carbon dioxide (CO ₂), water fog. Do not use a direct water jet on burning material — may spread fire.
Unsuitable Extinguishing Media	Direct water jet.

Flash Point	Approximately 100°C (closed cup) — combustible liquid.
Auto-ignition Temperature	Data not available for whole oil; individual sesquiterpene constituents typically >200°C.
Flammability Class	Combustible liquid (OSHA: Class IIIA / PGIII by flash point). Not classified as flammable under GHS.
Hazardous Combustion Products	Carbon monoxide (CO), carbon dioxide (CO ₂), irritating organic vapours and smoke.
Special Protective Equipment for Firefighters	Self-contained breathing apparatus (SCBA) and full protective clothing must be worn. Cool containers with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions

- Avoid contact with skin and eyes.
- Ensure adequate ventilation.
- Keep unnecessary personnel away.
- Wear appropriate PPE (see Section 8).
- Product may create slip hazard on floors and surfaces.

Environmental Precautions

- Prevent entry into drains, sewers, waterways, and soil.
- Product is very toxic to aquatic life with long lasting effects (H410).
- Notify relevant authorities if environmental contamination occurs, as required by local regulations.

Containment and Clean-Up

- Contain spill using sand, vermiculite, earth, or other inert absorbent material.
- Collect contaminated material into clearly labelled, sealable containers for disposal in accordance with Section 13.
- Do not flush to drain or waterways.
- Collect spillage (P391).
- Clean affected area with water after recovery.

Reference to Other Sections

See Section 8 for PPE. See Section 13 for disposal.

SECTION 7: HANDLING AND STORAGE

Handling

- Use in well-ventilated areas or under local exhaust ventilation.
- Avoid breathing vapours or mist (P261).
- Avoid contact with skin and eyes.
- Wash hands and exposed skin thoroughly after handling (P264).
- Contaminated work clothing should not be allowed out of the workplace (P272).
- Take precautions to prevent static build-up in large volume transfers.

Storage

- Store in tightly closed, original containers in a cool, dry, well-ventilated area.
- Keep away from heat sources, open flames, sparks, and oxidising materials.
- Protect from direct sunlight and prolonged exposure to air to minimise oxidation and degradation of quality.
- Recommended storage temperature: 5–25°C.
- Keep away from food, feed, and drinking water.
- Shelf life: Typically 12–24 months from manufacture if stored correctly; importing entity to verify with CoA/specification.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**Occupational Exposure Limits**

No specific occupational exposure limits (OELs) have been established for Sandalwood Oil (CAS 8006-87-9) as supplied under OSHA (US), WEL (UK), GESTIS (DE), or Safe Work Australia standards. Importing entities should check national OEL databases for individual constituents (alpha-santalol, beta-santalol) in the country of use.

Engineering Controls

Use local exhaust ventilation (LEV) at points of vapour or aerosol generation. Ensure general dilution ventilation is adequate. Provide eyewash stations and safety showers in proximity to handling areas.

Personal Protective Equipment (PPE)

PPE Type	Specification and Standards
Eye / Face Protection	Safety glasses or chemical splash goggles. Standards: EN ISO 16321 / EN166 (EU), ANSI/ISEA Z87.1 (US), AS/NZS 1337 (AU).
Skin / Hand Protection	Chemical-resistant gloves — nitrile rubber recommended (minimum 0.3 mm thickness). Consult glove manufacturer data for breakthrough times relevant to application. Standards: EN374 (EU), ASTM F739 (US), AS/NZS 2161 (AU). Change gloves immediately if breakthrough is suspected.
Body Protection	Wear chemical-resistant apron or lab coat for bulk handling. Full protective suit if splash risk is significant.
Respiratory Protection	Not normally required with adequate ventilation. If ventilation is inadequate: use a NIOSH-approved (US) / EN140/EN143 (EU) / AS/NZS 1715–1716 (AU) half-face respirator with organic vapour cartridge (Type A / OV). Importing entity to conduct inhalation risk assessment per local requirements.
Hygiene Measures	Do not eat, drink, or smoke in handling areas. Wash hands and face before breaks and after work.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value / Description
Appearance	Pale yellow to yellow, clear to slightly viscous liquid
Odour	Characteristic woody, creamy, balsamic sandalwood odour
Odour Threshold	Not determined for whole oil
pH	Not applicable (non-aqueous)
Melting / Freezing Point	Not applicable (liquid at ambient temperature)
Boiling Point / Range	Approximately 300–310°C (estimated from constituent data; not determined for whole oil)
Flash Point	~100°C (closed cup, PMCC method)
Auto-ignition Temperature	Data not available; estimated >200°C
Vapour Pressure	< 0.01 mmHg at 20°C (estimated — low volatility at ambient temperature)
Vapour Density (air = 1)	Greater than 1 (heavier than air; vapours may accumulate at low levels)
Relative Density (20°C)	0.960–0.980 g/cm ³
Solubility in Water	Practically insoluble. Miscible with ethanol, fixed oils.

Partition Coefficient (log Kow)	Estimated ~5.0–6.0 for principal sesquiterpene alcohols (indicates high lipophilicity and potential for bioaccumulation — consistent with H410 classification)
Viscosity	Approximately 10–30 mPa·s at 25°C (slightly viscous)
Explosive Properties	Not explosive
Oxidising Properties	Not oxidising
Flammability	Combustible liquid; not classified as flammable under GHS
Property	Value / Description
	criteria
Refractive Index	Approximately 1.502–1.508 at 20°C (batch-specific; refer to CoA)

Note: Values represent typical ranges. Importing entities should refer to the Certificate of Analysis (CoA) for batch-specific data.

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific reactivity hazards under normal conditions.
Chemical Stability	Stable under recommended storage conditions (cool, dark, sealed containers). Susceptible to oxidation and polymerisation on prolonged air exposure.
Conditions to Avoid	Heat, open flames, sparks, direct sunlight, prolonged exposure to air, oxidising agents.
Incompatible Materials	Strong oxidising agents, strong acids, strong bases.
Hazardous Decomposition Products	Carbon monoxide (CO), carbon dioxide (CO ₂), irritating organic vapours and carbonaceous smoke upon combustion.
Hazardous Polymerisation	Will not occur under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Exposure

Skin contact (primary route), eye contact, inhalation of vapours/mist at elevated temperatures. Ingestion unlikely under normal industrial use.

Toxicological Data by Endpoint

Endpoint	Data / Classification
Acute Toxicity (oral)	No LD50 data available for whole oil. alpha-Santalol LD50 (rat, oral): reported >5000 mg/kg. Not classified for acute oral toxicity.
Acute Toxicity (dermal)	No LD50 data available for whole oil. Not classified.
Acute Toxicity (inhalation)	No LC50 data available. Low vapour pressure at ambient temperatures limits inhalation exposure. Not classified.
Skin Corrosion / Irritation	Classified: Skin Irritation Category 2 (H315). Causes skin irritation on contact.
Serious Eye Damage / Irritation	Classified: Eye Irritation Category 2A (H319). Causes serious eye irritation.
Skin Sensitisation	Classified: Skin Sensitisation Category 1 (H317). Santalols are known contact allergens. Repeated skin exposure may cause allergic contact dermatitis.

Respiratory Sensitisation	No data available. Not classified.
Germ Cell Mutagenicity	No data indicating mutagenic potential. Not classified.
Carcinogenicity	Not classified as carcinogenic by IARC, NTP, or OSHA. No relevant data for whole oil.
Reproductive Toxicity	No data available. Not classified.
STOT — Single Exposure	Not classified. May cause mild respiratory irritation at high vapour concentrations.
STOT — Repeated Exposure	Not classified. Repeated skin exposure may cause dryness or cracking.
Endpoint	Data / Classification
Aspiration Hazard	Not classified. Viscosity and physical properties do not indicate significant aspiration risk.

SECTION 12: ECOLOGICAL INFORMATION

Eco-toxicological Data

Parameter	Data
Aquatic Toxicity (Acute)	Classified Aquatic Chronic Category 1 (H410). Specific LC50/EC50 data not available for whole oil; toxicity inferred from constituent properties and classification.
Aquatic Toxicity (Chronic)	Very toxic to aquatic life with long lasting effects. Sesquiterpene alcohols are considered to have significant aquatic chronic toxicity.
Persistence / Degradability	Organic sesquiterpene constituents expected to be readily biodegradable under aerobic conditions. Specific test data not available for whole oil.
Bio-accumulative Potential	High log Kow (~5.0–6.0 for principal constituents) indicates significant bio-accumulation potential in aquatic organisms. BCF data not available.
Mobility in Soil	Insoluble in water; expected to adsorb to soil particles and sediment. Low mobility in soil.
PBT / vPvB Assessment	Not formally assessed. High lipophilicity and aquatic toxicity suggest potential PBT/vPvB concern. Importing entity (EU) should conduct assessment per REACH Annex XIII.
Endocrine Disruption	Not assessed. No specific data available.

Avoid release to the environment (P273). Collect spillage (P391). Do not discharge into drains or waterways.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of contents and containers in accordance with applicable local, regional, national, and international regulations. The following guidance is general; importing entities must comply with regulations applicable in their jurisdiction.

- Do not discharge to drains, sewers, or waterways — product is very toxic to aquatic life (H410).
- Incineration at a licensed facility with energy recovery is the preferred disposal method for bulk waste.
- Small quantities may be suitable for solvent recovery or licensed waste contractor collection.
- Empty containers: drain thoroughly; residues may retain hazardous properties. Dispose via licensed waste contractor. Do not reuse for food, beverages, or domestic purposes.
- Packaging should be disposed of in accordance with regional packaging waste regulations (e.g., EU Packaging Directive 94/62/EC; AU state EPAs).

EU/EEA importing entities: Waste classification under the European Waste Catalogue (EWC) is the responsibility of the waste holder. Likely code: 07 07 08 (other still bottoms and reaction residues) or 07 07 99 (wastes not otherwise specified).

SECTION 14: TRANSPORT INFORMATION

Parameter	ADG (AU)	IMDG (Sea)	IATA (Air)	ADR/RID (EU Road/Rail)
UN Number	UN3082	UN3082	UN3082	UN3082
Proper Shipping Name	ENVIRONMENT ALLY	ENVIRONMENT ALLY	ENVIRONMENT ALLY	ENVIRONMENT ALLY
Parameter	ADG (AU)	IMDG (Sea)	IATA (Air)	ADR/RID (EU Road/Rail)
	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sandalwood Oil)	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sandalwood Oil)	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sandalwood Oil)	HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sandalwood Oil)
Transport Hazard Class	9	9	9	9
Packing Group	III	III	III	III
Marine Pollutant	Yes	Yes (Mark as Marine Pollutant)	N/A	N/A
Packing Instruction (PI)	ADG 7.9 Code P002	P002	Y964 (passenger & cargo); 964 (cargo only)	P002 (LQ: LP02)
Special Provisions	AU SP 13	IMDG SP 375 (limited quantities)	IATA A97	ADR SP 375, 601
EmS (IMDG)	N/A	F-A, S-F	N/A	N/A
Segregation	N/A	As per IMDG code	N/A	N/A

Note: Limited quantity (LQ) and excepted quantity (EQ) thresholds may apply depending on package size. Consult the applicable transport code edition current at time of shipment. ADG 7.9 (current edition) applies within Australia.

SECTION 15: REGULATORY INFORMATION

This SDS Prepared in Alignment With:

- GHS Revision 7 (UN Globally Harmonised System of Classification and Labelling of Chemicals)
- OSHA Hazard Communication Standard (HCS) — 29 CFR 1910.1200 (United States)
- EU CLP Regulation (EC) No 1272/2008 as amended
- EU REACH Regulation (EC) No 1907/2006 as amended
- Australian Work Health and Safety (WHS) Regulations — Model WHS Regulations & Code of Practice
- Safe Work Australia — Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (2021)

Key Regulatory Notes by Region

Region	Notes for Importing Entity
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EU / EEA	Importing entity acts as 'importer' under REACH and CLP. Obligations include: substance registration (if applicable), SDS in official language(s), UFI generation, ECHA PCN notification (for mixtures), assessment of EUH208/EUH066 applicability, appointment of EU Responsible Person under CLP Art. 4.
United Kingdom	Post-Brexit: UK REACH (retained EU REACH) applies. UKCA marking may be required. SDS must comply with UK HSE requirements. UK responsible person may be required.
United States	Importer must comply with OSHA HazCom 29 CFR 1910.1200. TSCA (Toxic Substances Control Act) notification obligations should be verified. California Prop 65: verify constituent listing status.
Australia (reexport)	If re-exported within AU: Safe Work Australia Model WHS Regulations apply. Importer may need to provide SDS in English; this SDS satisfies that

Region	Notes for Importing Entity
	requirement.
Other Regions	Importing entities in other jurisdictions are solely responsible for determining and complying with applicable chemical control regulations (e.g., China GB standards, Japan CSCL, Canada WHMIS/DSL, South Korea K-REACH).

Ingredient Listing Status (Non-Exhaustive)

- TSCA Inventory (US): Sandalwood Oil (CAS 8006-87-9) — importing entity to verify active status.
- AICS (Australia): CAS 8006-87-9 — listed.
- EINECS/ELINCS (EU): Importing entity to verify; UVCB substances may be subject to specific provisions.
- DSL (Canada): Importing entity to verify.

SECTION 16: OTHER INFORMATION**Document Control**

Version	3.0 (Final — for supply to importing entities)
Issue Date	2026-05-13
Supersedes	Version 2.2 (Final Draft, 2026-05-13)
Prepared By	Sandal Oils Australia, NSW, Australia
Review Due	2031-05-13 (5-year review cycle) or upon significant change to classification, composition, or applicable regulations
Validity Note	This SDS is valid for 5 years from issue date unless superseded by a revised version. Importing entities should contact Sandal Oils Australia to confirm currency before distribution.

Revision History

Version	Date	Summary of Changes
1.0	Prior	Original issue
2.2	2026-05-13	Draft: Multi-region GHS/CLP/OSHA/AU WHS alignment; pictogram correction noted.
3.0	2026-05-13	Full revision: Added missing P-statements (P391, P272, P261, P501); added EUH208/EUH066 EU supplementary statements; expanded Section 9 (vapour pressure, boiling point, viscosity, log Kow, auto-ignition temperature, refractive index); expanded Section 11 (individual toxicological endpoints per GHS/OSHA requirements); expanded Section 12 (specific ecotoxicological data and PBT/vPvB note); individualised constituent CAS numbers in Section 3; regionalised PPE standards (ANSI, AS/NZS, EN); expanded Section 14 (IATA passenger/cargo PIs, IMDG SP375, ADG edition); added Section 15 regulatory region table; added Section 1 importing entity obligations; document control and revision history added.

Abbreviations and Acronyms

ADG	Australian Dangerous Goods Code
ADR/RID	European Agreement on Dangerous Goods by Road / Rail
AICS	Australian Inventory of Chemical Substances
BCF	Bio-concentration Factor

CAS	Chemical Abstracts Service (registry number)
CLP	Classification, Labelling and Packaging (EU Regulation EC 1272/2008)
CoA	Certificate of Analysis
DSL	Domestic Substances List (Canada)
ECHA	European Chemicals Agency
EWC	European Waste Catalogue
GHS	Globally Harmonised System of Classification and Labelling
HazCom	Hazard Communication Standard (OSHA, US)
HNOC	Hazards Not Otherwise Classified
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
INCI	International Nomenclature of Cosmetic Ingredients
LEV	Local Exhaust Ventilation
LQ	Limited Quantity (transport)
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration (US)
PBT	Persistent, Bio-accumulative and Toxic
PCN	Poison Centre Notification (ECHA)
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (EU)
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TSCA	Toxic Substances Control Act (US)
UFI	Unique Formula Identifier (EU/EEA)
UVCB	Unknown or Variable composition, Complex reaction products or Biological materials
vPvB	very Persistent and very Bio-accumulative
WHS	Work Health and Safety (Australia)

Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate as at the date of issue and is based on data available at that time. Sandal Oils Australia makes no warranty, express or implied, as to the accuracy or completeness of the information provided. This SDS is intended to be supplied to professional importing entities for compliance and hazard communication purposes only.

Importing entities are solely responsible for: (a) verifying the currency and completeness of this SDS for their jurisdiction; (b) translating this SDS into required language(s); (c) complying with all applicable national regulations; (d) any modifications made to this document for local use. Sandal Oils Australia accepts no liability for the use of this document by third parties beyond its intended purpose.

This SDS should undergo review by a qualified regulatory specialist in each importing jurisdiction before commercial distribution within that jurisdiction.