

SAFETY DATA SHEET

INDIAN SANDALWOOD - OIL

SDS-RD-028 v9.0

Date last reviewed: May 2023

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1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

- 1.1 IDENTIFICATION OF THE SUBSTANCE** : Indian Sandalwood Oil
- PRODUCT CODE(S)** : SAQOIL-APISO/FRG SAQOIL-APISO/PHM SAQFGOIL
- BOTANICAL NAME** : *Santalum album*
Synonyms: *East Indian or White sandalwood*
- REACH REGISTRATION** : 01-2120765150-63-0000
- INCI NAME** : Santalum Album (Sandalwood) Oil
- 1.2 USE OF THE SUBSTANCE OR PREPARATION** : Ingredient for perfumes, cosmetics, flavour and pharmaceutical preparations
- 1.3 COMPANY UNDERTAKING IDENTIFICATION** : Quintis Sandalwood Pty Ltd
2 Down Road
Albany WA 6330
Australia
- Contact Person** : Jonathan Eatt
- Telephone** : + 61 8 9845 6888 (Mon-Fri, 8:00am-5:00pm)
- Facsimile** : + 61 8 9841 7100
- E-mail** : products@quintis.com.au
- 1.4 EMERGENCY TELEPHONE NUMBER** : + 61 8 9845 6888

2. HAZARD/S IDENTIFICATION

- 2.1 HAZARDS CLASSIFICATION** : COMBUSTIBLE LIQUID regulated under AS1940 for Bulk Storage purposes only.
- Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.
- Classified as Hazardous according to GHS.

2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS

Signal Word:
Warning

Symbol:
Exclamation Mark





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Hazard Statements/s	Eye Irritation Category 2 Skin Irritation Category 2 Skin Sensitisation Category 1 Aquatic Acute 2	H319: Causes eye irritation H315: Causes skin irritation H317: May cause an allergic skin reaction H401: Toxic to aquatic life.
	Prevention	Response
Precautionary Statement/s	P264: Wash hands thoroughly after handling P280: Wear protective gloves to a Standard EN374. P272: Contaminated work clothing should not be allowed out of the work place P280: Wear eye protection giving chemical protection as classified in EN166. P273: Avoid release to the environment	P302+P352: IF ON SKIN: Wash with plenty of soap & water P332+P313: If skin irritation occurs: Get medical advice/attention. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing & wash before re-use. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove Contact lenses, if present & easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention P391: Collect spillage
	Storage	Disposal
2.3 OTHER HAZARDS	: None determined	P501: Dispose of contents by incineration or landfill in accordance with local regulations.

3. COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENT	COMMON NAME	CAS NUMBER	EC NUMBER	EU CAS NUMBER	% PRESENT
Indian Sandalwood Oil	Sandalwood Oil	8006-87-9	284-111-1	84787-70-2	100%

4. FIRST AID MEASURES

Exposure by Inhalation : Symptoms may include irritation of nose, throat and lungs, including coughing. Remove person to fresh air. Seek medical attention if symptoms persist.

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- Exposure by Skin Contact : Symptoms may include irritation and reddening of the affected skin area. Wash skin with soap & water. Seek medical attention if symptoms persist.
- Exposure by Eye Contact : Symptoms may include stinging and reddening of eyes. Flush eyes with plenty of clean water for at least 15 minutes. Seek medical attention if symptoms persist.
- Exposure by Ingestion : Symptoms may include gastric upset and nausea. Do not induce vomiting. Seek immediate medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media : Dry chemical, foam or carbon dioxide.
- Hazards from Combustion Products : May produce oxides of carbon if burning.
- Extinguishing Media not to be used : Use of water extinguishing media on any oil fire should be avoided.
- Specific Exposure Hazards : The substance is combustible and will burn if involved in a fire.
- Protective Equipment for Fire-fighters : Full protective clothing & self-contained breathing apparatus should be worn.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions : Evacuate personnel from immediate vicinity. Wear suitable protective equipment.
- Safety Precautions : Eliminate all ignition sources. Ventilate area.
- Environmental Precautions : Do not allow to enter drains.
- Methods for Cleaning Up : Absorb spill with a suitable inert material (e.g. sand or soil). Transfer the spill to waste containers labelled in the same way as the original containers. Cap & seal waste containers. Clean spillage area with water & detergent.

7. HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

7.1 HANDLING

- Precautions : Avoid contact with skin & eyes. The substance should be handled under conditions of good industrial hygiene & in conformity with any local regulations in order to avoid unnecessary exposure to personnel or the environment.
- Technical Measures ; Engineering controls such as local exhaust ventilation should be used in order to reduce exposure to the substance.
- Specific Requirements : None known.

7.2 STORAGE:

- Specific Design – Storage Rooms or Vessels : Adequate ventilation.

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- Incompatible Materials : Oxidisers.
- Conditions of Storage : Store in a cool, dry, well-ventilated area, protected from moisture, sources of ignition and direct sunlight. Keep containers tightly closed when not in use.
- Quantity Limits : None.
- Packaging Materials : Brown glass, stainless steel and aluminium containers.
- 7.3 SPECIFIC USE(S)** : Ingredient for perfumes, cosmetics, flavour and pharmaceutical preparations

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

The provision of personal protective equipment and the need to provide engineering control measures should be decided upon by the user as part of a formal exposure risk assessment.

Based upon the available toxicological information the protective measures described below should be regarded as a minimum.

- 8.1 EXPOSURE CONTROL** : No Exposure Standard allocated.
TWA (mg/m³): Not allocated. TWA (mg/m³): Not allocated.

- 8.2 BIOLOGICAL LIMIT VALUES** : No Biological Limit allocated.

- 8.3 ENGINEERING CONTROLS** : Use only in a well-ventilated area.

8.4 OCCUPATIONAL EXPOSURE CONTROLS

- Respiratory Protection : Based on current information & in the absence of occupational exposure limits, use of a vapour mask to a minimum standard of EN405 FFA1 is recommended if ventilation is poor or the space is confined.
- Hand Protection : Chemical protective gloves to a Standard EN374 should be provided. Usage periods should not exceed the breakthrough times for the chemical stated by the manufacturer of the glove.
- Eye Protection : Eye protection (safety glasses), should be used when handling the substance. The protection should be capable of giving chemical protection as classified in EN166.
- Skin Protection : Handling of the material should be done wearing chemical protective clothing suitable for protection against the chemical as classified by Standard EN368.

- 8.5 ENVIRONMENTAL EXPOSURE CONTROLS** : None specified

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 GENERAL INFORMATION

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Appearance	: Pale yellow to yellow viscous liquid with a characteristic and tenacious odour.
Odour	: Sweet, nutty, diffuse, and woody odour.
Odour Threshold	: Not available
pH	: Not available.

9.2 IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Vapour Pressure	: <0.1kPa @37.8°C	ASTM D2879 / Reid
Vapour Density	: Not available	
Boiling Point / Range	: 288.5°C @ 760 mm Hg	ASTM D86
Pour Point	: < -21	ASTM D97
Solubility: Water	: <1.0%	OECD 105
Solubility: Fat	: Soluble	
Specific Gravity	: 0.968 – 0.983	@20°C
Relative Density	: 0.97g/ml	
Evaporation Rate	: Not available	
Flash Point	: 166°C @ 100.5 kPa	ASTM D93
Auto Ignition	: 320 °C @ 102.6 kPa 50%RH 5.8min lag time	ASTM E659
Flammability (Solid, Gas)	: Not classified	
Explosive Properties	: Not available	
Oxidising Properties	: Not available	
Partition Coefficient: n-octanol water	: 0.6	OECD 107
Viscosity	: 60 centipoise @ 20°C	Rotary Viscometer

9.3 OTHER INFORMATION : Not available

10. STABILITY AND REACTIVITY

10.1 CHEMICAL STABILITY : Chemically stable material.

10.2 CONDITIONS TO AVOID : Heat and light

10.3 INCOMPATIBLE MATERIALS : Strong oxidising agents.

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10.4 HAZARDOUS DECOMPOSITION PRODUCTS : Carbon monoxide, carbon dioxide & other hazardous decomposition products may form under fire conditions.

10.5 HAZARDOUS REACTIONS : Not available

11. TOXICOLOGICAL INFORMATION

11.1 TOXICOKINETICS, METABOLISM & DISTRIBUTION

Acute Effects: Oral : Not determined
Inhalation : Not determined
Dermal : Not determined
Irritation / Corrosive: Skin : HRIPT100 at 100% Concentration is considered a non-primary irritant.
Eye : Not determined
Germ Cell Mutagenicity : Not available
Carcinogenicity : Not available
Reproductive Toxicity : Not available
Specific Target Organ Toxicity (STOT) single : Not available
Specific Target Organ Toxicity (STOT) rpt : Not available
Aspiration Hazard : Not available
Sensitisation : HRIPT100 at 100% Concentration is considered a non-primary sensitiser

11.2 ROUTES OF EXPOSURE & EFFECTS

Ingestion : May be harmful if swallowed. Symptoms may include abdominal pain & nausea.
Inhalation : Not Available.
Skin : May be irritating to the skin. Symptoms may include redness, and irritation.
Eye : May be irritating to the eye. Symptoms may include redness and stinging.

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY : Avoid releasing into drains.

Acute fish toxicity : Not determined

Acute *Daphnia* toxicity : Not determined

Algal growth inhibition : EC50 3.0mg/L *WAF – water accommodated fraction of the concentration of sandalwood oil to seawater, as the sandalwood is a poorly soluble compound.

Activated Sludge Respiration : Not determined



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Prolonged fish toxicity	: Not determined
21-day <i>Daphnia</i> reproduction study	: Not determined
12.2 MOBILITY	: Not determined
12.3 PERSISTENCE AND DEGRADABILITY	: Readily biodegradable (OECD 310)
12.4 BIO-ACCUMULATIVE POTENTIAL	: Not determined
12.5 RESULTS OF PBT ASSESSMENT	: Not determined
12.6 OTHER ADVERSE EFFECTS	: Not determined

13. DISPOSAL CONSIDERATIONS

Waste from Residues	: Dispose of by incineration or landfill in accordance with local regulations.
Contaminated / Empty Packaging	: Dispose of by incineration or landfill in accordance with local regulations.

14. TRANSPORT INFORMATION

COMBUSTIBLE LIQUID regulated under AS1940 for Bulk Storage purposes only.

Not Dangerous Goods according to criteria of the Australian Dangerous Goods (ADG) Code for Transport.

UN number	: Not allocated
UN Proper Shipping Name	: Not allocated
Transport Hazard Class & Subsidiary Risk	: Not allocated
Packing Group	: Not allocated
Environmental Hazards for Transport	: Not determined
Special Precautions for Transport	: Not determined
Hazchem Code	: Not allocated

International Regulations:

Land	: None
Sea	: None
Air	: None

Local Regulations : Any relevant local regulations concerning transport should be observed.

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15. REGULATORY INFORMATION

SUSMP	:	No Poisons Schedule number allocated.
AICS	:	This substance is listed on the AICS database
EC Regulation	:	The substance is not classified as dangerous according to the requirements of Annex VI to the Dangerous Substances EC1272/2008.

16. OTHER RELEVANT INFORMATION

16.1 DATA SOURCES:

United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
REVISION 6 (2015).

MS13.RIPT.M9675SO.100 : Human repeat insult patch test 100 subject

16.2 ABBREVIATIONS AND ACRONYMS USED IN THIS SDS:

@	:	At
>	:	Greater than
<	:	Less than
°C	:	Degrees Celsius
%	:	Percentage
ADG	:	Australian Dangerous Goods
AICS	:	Australian Inventory of Chemical Substances
CAS	:	Chemical Abstract Service
EC	:	European Commission
EEC	:	European Economic Community
EN	:	European Norm, European Standard
EU	:	European Union
g	:	Gram
GHS	:	Globally Harmonised System
HAZCHEM	:	Hazardous Chemical (A warning plate system used in Australia for transport & storage of hazardous substances)
IARC	:	International Agency for Research on Cancer
Kg	:	Kilogram
LD	:	Lethal Dose
LD50	:	Individual dose required to kill 50% of a population of test animals
LEL	:	Lower Explosive Limit
LLNA	:	Local Lymph Node Assay
M ³	:	Metre cubed
Mg	:	Milligram
ml	:	Millilitre
NOHSC	:	National Occupational Health and Safety Commission (Australia)
PBT	:	Persistent Bio-accumulative Toxic chemical

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Rpt	:	Repeat
STEL	:	Short Term Exposure Limit
STOT	:	Specific Target Organ Toxicity
SUSMP	:	Standard for the Uniform Scheduling of Medicines and Poisons (Australia)
TWA	:	Time Weighted Average
UN	:	United Nations

The information and recommendations contained herein are based upon available test data for the substance.

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