# SAFETY DATA SHEET



Revision date: 22-Aug-2022

**Revision Number** 4

# 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name OIL OF AMYRIS

**Product Code(s)** 000000039746

Other means of identification

Synonyms Sandalwood Oil West Indian; AFOIL00007

Pure substance/mixture Substance

Recommended use of the chemical and restrictions on use

Recommended use Essential oil.

Uses advised against No information available.

**Supplier** 

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia ABN:51 600 546 512 70 Marple Avenue Villawood NSW 2163 Australia

Telephone Number: +61 2 8717 2929

Facsimile: +61 2 9755 9611

Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

# 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Not classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

Chronic aquatic toxicity Category 3

**SIGNAL WORD** 

None

Label elements

#### **Hazard statements**

The following health/environmental hazard categories fall outside the scope of the Workplace Health and Safety Regulations: H412 - Harmful to aquatic life with long lasting effects

## **Precautionary Statements - Prevention**

Avoid release to the environment

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

## Other hazards which do not result in classification

May be harmful if swallowed

Poisons Schedule (SUSMP) None allocated

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical name	CAS No.	Weight-%
Oils, amyris	8015-65-4	100

# 4. FIRST AID MEASURES

# **Description of first aid measures**

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor.

**Inhalation** Remove to fresh air. Call a physician if symptoms occur.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

symptoms occur.

**Skin contact** Wash skin with soap and water. Call a physician if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get

medical attention if symptoms occur.

# Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

## Indication of any immediate medical attention and special treatment needed

# 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Water.

Specific hazards arising from the chemical

Specific hazards arising from the

chemical

Combustible liquid. On burning will emit toxic fumes, including those of oxides of carbon. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

Hazardous combustion products Oxides of carbon.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin and eyes. Avoid breathing vapors or mists. Ensure adequate

ventilation. Do not touch or walk through spilled material. Wash thoroughly after handling.

Use personal protective equipment as required.

Other information Ventilate the area.

For emergency responders Shut off ignition sources. Clear area of all unprotected personnel. Use personal protection

recommended in Section 8.

**Environmental precautions** 

Environmental precautions Prevent further leakage or spillage if safe to do so. See Section 12 for additional Ecological

Information.

# Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Remove ignition sources. Provide adequate

ventilation. Dike far ahead of spill to collect runoff water. Absorb or cover with dry earth,

sand or other non-combustible material and transfer to containers.

Methods for cleaning up Slippery when spilt. Avoid accidents, clean up immediately. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

# 7. HANDLING AND STORAGE

#### Precautions for safe handling

Advice on safe handling Avoid contact with skin and eyes. Avoid breathing vapors or mists. Ensure adequate

ventilation. Wash thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice.

**General hygiene considerations** Regular cleaning of equipment, work area and clothing is recommended. Wash hands and

face before breaks and immediately after handling the product. Wear suitable gloves and

eye/face protection.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from direct

sunlight. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep container closed when not in use.

Classified as a C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and

transport requirements.

Oxidizing agents. ,. Strong acids. and. Strong bases. Incompatible materials

Poisons Schedule (SUSMP) None allocated

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Limits** No value assigned for this specific material by Safe Work Australia.

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. **Engineering controls** 

## Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES.









Eye/face protection Glasses.

Skin and body protection Wear suitable protective clothing. Boots. Overalls.

Hand protection Impervious gloves.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear an organic vapour

respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**Environmental exposure controls** No information available.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

**Physical state** Liquid

**Appearance** No information available. Color Colourless to Pale Yellow

Characteristic, Distinct Wood - like Reminiscent of Sandalwood Odor

Odor threshold No information available.

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Not Applicable pН None known No data available pH (as aqueous solution) None known No data available Melting point / freezing point None known None known No data available **Boiling point / boiling range** None known >93.3 °C Flash point **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

<0.001 mmHg @20 °C Vapor pressure None known No data available Vapor density None known Relative density 0.960 None known Water solubility No data available None known Solubility(ies) Immiscible in water None known **Partition coefficient** No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known

Other information

## 10. STABILITY AND REACTIVITY

Reactivity

**Reactivity** No information available.

**Chemical stability** 

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

Conditions to avoid

**Conditions to avoid** Heat, flames and sparks. Direct sunlight.

Incompatible materials

**Incompatible materials** Oxidizing agents. ,. Strong acids. and. Strong bases.

**Hazardous decomposition products** 

Hazardous decomposition products Oxides of carbon.

# 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

## Information on likely routes of exposure

**Product Information**No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

**Inhalation** May cause irritation.

**Eye contact** May cause irritation.

**Skin contact** May cause irritation.

Ingestion May be harmful if swallowed. May cause gastrointestinal discomfort if consumed in large

amounts.

**Symptoms** No information available.

Numerical measures of toxicity - Product Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Oils, amyris	= 4540 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

Aspiration hazard No information available.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity** Avoid contaminating waterways. Harmful to aquatic life with long lasting effects.

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

**Mobility** 

Mobility in soil No information available.

Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld

containers.

# 14. TRANSPORT INFORMATION

#### ADG

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

#### **IATA**

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

## <u>IMDG</u>

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea: NON-DANGEROUS GOODS.

# 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

## **National regulations**

#### Australia

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Not classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

# **International Inventories**

AIIC This material is listed on the Australian Inventory of Industrial Chemicals.

#### Legend:

AIIC - Australian Inventory of Industrial Chemicals

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## 16. OTHER INFORMATION

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Issuing Date: 22-Aug-2022

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australian Industrial Chemicals Introduction Scheme (AICIS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

## Disclaimer

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot

anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris and Australian Botanical Products.

**End of Safety Data Sheet**