

according to 1907/2006/EC, Article 31

Version: SDS/2013/03 Print Date: 21/11/2018

Product Name: SANDALWOOD OIL (SANTALUM ALBUM)

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

1.1 Product Identifiers

Product Code : 011

Product Name : SANDALWOOD OIL (SANTALUM ALBUM)

CAS No. (TSCA) : 8006-87-9 EINECS : 284-111-1 Reach Registration number: N/A Reach Pre-Registration number: N/A

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available **Application of the substance / preparation:** Food/Flavour & Fragrance Application

1.3 Manufacturer / Supplier Details:

Golden Grove Naturals Pty Ltd)

Munro Wharf Road, Tucki Tucki, NSW 2480 Email: info@goldengrovenaturals.com

1.4 Information in case of emergency:

Mr. Prasenjit Mazumdar Ph.: +91 9810008844

Email: pmazumdar@goldengrovenaturals.com

SECTION 2: Hazard Identification

2.1 Classification of the substance / preparation

Classification according to Regulation (EC) No. 1272/2008

Skin Sens. 1 H317: May cause an allergic skin reaction

Aquatic Chronic 3 H412: Harmful to aquatic life with long-lasting effects

2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008

This product is classified and labelled according to the CLP regulation.

GHS Signal Word

WARNING

Hazard Pictograms



GHS07

Hazard Determining components of Labelling

alpha-Santalol beta-Santalol

Hazard Statements

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

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Precautionary Statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P272 Contaminated work clothing should not be allowed out of the workplace

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection/face protection

P363 Wash contaminated clothing before reuse P302+352 IF ON SKIN: Wash with soap and water

P333+313 If skin irritation or a rash occurs: Get medical advice/attention

P501 Dispose of contents/container to ... (in accordance with local/regional/national/international regulation)

2.3 Other Hazard

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment

SECTION 3: Composition / Information of Ingredients

3.1 Chemical characterisation: Substance

TSCA CAS Number : 8006-87-9 EINECS CAS Number : N/A

Description: Santalum albumEINECS Number: 284-111-1

3.2 Dangerous components:

BETA SANTALOL (CAS No 77-42-9) ATO 5, SS 1B-H303, H317; Amount: 16-24% ALPHA SANTALOL (CAS No 115-71-9) ATO 5, SS 1B-H303, H317; Amount: 41-55%

3.3 Additional Information:

For the wordings of listed H statements refer to section 16

SECTION 4: First AID Measures

4.1 Description of first aid measures

General information:

If health disorder happens, call for medical help immediately.

Immediately remove any clothing soiled by the product.

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, alcohol resistant foam, powder, water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO2)

Smoke and soot

Do not use water with full jet to prevent fire spreading.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

Collect contaminated firefighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Follow safety measures in chapter 7 and 8.

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/surface or ground water.

6.3 Methods and material for containment and cleaning up:

Wipe up little amounts with absorbent material like cloth or pulp.

Water and cleansing agent

Absorb with incombustible liquid-binding material (sand, diatomite, universal binders).

Dispose of contaminated material as waste according to item 13.

6.4 Reference to other sections

Keep ignition source away, do not smoke and avoid flames.

See Section 7 for information on safe handling.

 $See \ Section \ 8 \ for \ information \ on \ personal \ protection \ equipment.$

See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling personal protection equipment see point 8.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

Moistened solids (e.g. cloth, pulp, filter panel, binder) must be stored hermetically sealed and/or watered and proper disposed (see chapter 9 and 13).

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:

Store only in unopened original receptacles.

Provide solvent resistant, sealed floor.

Information about storage in one common storage facility: Store away from oxidising agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed receptacles.

Storage class: 3

Classification according to Betriebssicherheitsverordnung (BetrSichV) Flammable

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

No Data Available

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8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Use personal protective equipment depending on concentration and amount of hazardous substance.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Respiratory protection:

Suitable respiratory protection: filter class A2 (brown colour). Use the rules for application of respiratory protection systems.

Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.



The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The election of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

> 480 minutes at layer thickness of 0,425 millimetre (Sol-Vex 37-695/Ansell).

The exact break through time must be found out by the manufacturer of the protective gloves and must be observed.

For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

E.g. following product: Sol-Vex (37-695) from Ansell.

As protection from splashes gloves made of the following materials are suitable: PVC gloves

Eye protection:

Recording to EN 166:2001

Body protection: Protective work clothing

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SECTION 9: Physical and chemical properties

General Information

Form : Liquid

Colour : Colourless to Golden yellow

Odour : Pleasant sweet woody and persistent

Odour Threshold : N/A

Change in Condition

Melting Point °C : N/A
Boiling Point ° C : N/A
Flash Point (Closed Cup) °C : 136°C

 Specific Gravity/Relative Density
 : 0.968 - 0.983 @ 20°C

 Refractive Index
 : 1.503 - 1.509 @ 20°C

Vapour Density : N/A
Vapour Pressure : N/A

Solubility:

Water : Insoluble
Alcohol : Soluble

Flammability : N/A
Auto Ignition Temperature : N/A

Explosive Limits

Lower Explosion Limits : N/A
Upper Explosion Limits : N/A

pH value : N/A

 Optical Rotation
 : -12° to -21°

 Surface Tension
 : N/A

 Partition Coefficient
 : N/A

 Granulometry
 : N/A

 Oxidising Properties
 : N/A

Viscosity : Not estimated

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2. Chemical stability

Thermal decomposition / conditions to be avoided:

Heating causes vaporisation and formation of ignitable atmosphere is possible.

10.3 Possibility of hazardous reactions

Formation of explosive gas mixture with air possible.

Product is not self igniting; but in case of unpropitious storing conditions (air admission, heat accumulation) self ignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder).

Reacts violently with oxidising agents.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products expected by intended use.

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SECTION 11: Toxicological information

11.1 Toxicological Information Acute

OralNo data availableInhalationNo data availableSkinNo data available

11.2 Exposure Limits No data available

Note: There is a blanket recommendation of 10 mg/m3 for inspirable dusts or mists when limits have not otherwise been

SECTION 12: Ecological information

12.1 Toxicity

PNEC Oral No data available
EC50 (48hrs) No data available
LC50 (96hrs) No data available

12.2 Persistence and degradability Not Determined

12.3 Mobility in Soil Not Determined

12.4 Results of PBT and vPvB assessment No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Product/packaging disposal

Handle in accordance with official provisions

Waste treatment options

Recycling is preferred to disposal or burning

Disposal conditions

Dispose of in accordance with all federal, state and local environmental regulations.

13.2 Recommendations:

Empty contaminated packing thoroughly as they may be recycled

Moistened solids to be dispose-off adhering to necessary technical regulations after consulting concerned authorities

SECTION 14: Transport information

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14.1 Land Transport (ADR/RID/GGVSE)

UN Number Not regulated

DG ClassN/APacking GroupN/AProper Shipping NameN/AClassification codeN/A

14.2 Sea Transport (IMDG-Code/GGVSE)

UN Number Not regulated

DG ClassN/APacking GroupN/AProper Shipping NameN/AMarine PollutantN/A

14.3 Air Transport (ICAO-TI/IATA-DGR)

UN Number Not regulated

DG Class N/A
Packing Group N/A

ADR/IMDG/IATA Labels:

14.4 Special precautions for users:

Wear protective gloves/protective clothing/eye protection/face protection. Take off contaminated clothing and wash before reuse. Prevent entry into drains, ground/surface water or sewerage system.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

N/A

Other Information

Custom Tariff Code 3301.29.6000

EmS Code --

SECTION 15: Regulatory information

15.1 EU regulations:

The product has been classified and marked in accordance with EU Directives/ Ordinance on Hazardous Materials.

15.2 Water Hazard Class (Germany): N/A

15.3 Chemical safety Assessment No data available

15.4 Other regulations, limitations and prohibitive regulations

EPA No
TSCA Yes
DSL Yes
Preposition 65 No

Comply with the rules and regulations of skin protection.

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SECTION 16: Other information

Abbreviations used:

EC European Commission
EU European Union
DG Dangerous Goods
CAS Chemical Abstract Service

EINECS European Inventory of Existing Commercial chemical Substances

GHS Globally Harmonized System
CMR Carcinogen, Mutagen, Reprotoxic
PNEC Predicted No Effect Concentration
EC50 Effective Concentration 50 percent
LC50 Lethal Concentration 50 percent
PBT Persistent Bio accumulative and Toxic
vPvB Very Persistent Very Bio accumulative

EWC European Waste Catalogue
EmS Emergency Medical Services

ADR Transport of Dangerous Goods by Road
RID International Carriage of Dangerous Goods by Rail

GGVSE German Regulation on the Transport of Dangerous Goods by Road and Rail

MDG International Maritime Dangerous Goods

ICAO-TIInternational Civil Aviation Organization-Technical Instructions

IATA-DGR International Air Transport Association-Dangerous Goods Regulation

WGK Wassergefährdungsklassen
EPA Environmental Protection Agency
TSCA Toxic Substance Control Act
DSL Dangerous Substance List

16.2 Full text of the H-Statement used in Section -3. (follow the link)

http://ec.europa.eu/enterprise/sectors/chemicals/files/ghs/signalwords hs ps en.xls>

Quality Declaration

The information contained herein is based on the present state of our knowledge. It characterizes the product with regards to the appropriate safety precaution.

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