

# MATERIAL SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907 /2006 Article 31

Product: Santalol



**ARORA AROMATICS PVT. LTD.**

Natural Mint Products, Natural Essential Oils, Natural Isolates & Specialities

2 K.M. Stone, Moradabad Road, Sambhal-244302, (U.P.) INDIA

Phone : +91-5923-231924, 230624, 232373. Fax : +91-5923-231564

Email : aa@mentholcrystals.net.in, Website : www.aroraaromatics.com

Revision Date: 19.06.2018

Version: 3.0

## Section 1: Chemical Product and Company Identification

### 1.1 Product Identifiers

Product Code :  
Product Name : SANTALOL (SANTALUM ALBUM)  
CAS No. (TSCA) : 11031-45-1  
EINECS : 234-262-4  
Reach Registration number: --  
Reach Pre Registration number: --

### 1.2 Relevant identified uses of the substance or mixture and uses a dvided against

No further relevant information available

Application of the substance / preparation: Fragrance & Flavour Application

### 1.3 Manufacturer / Supplier Details:

Arora Aromatics Pvt. Ltd  
2 Km Stone, Moradabad Road Sambhal,244302, U.P., India.  
[www.aroraaromatics.com](http://www.aroraaromatics.com)

### 1.4 Information in case of emergency:

Mr. Ashok Kumar Jha  
Ph.: +91 9917322225  
Email : [qa@mentholcrystals.net.in](mailto:qa@mentholcrystals.net.in)

## Section 2 : Hazards 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

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

This product is classified and labeled accroding to the CLP regulation.

GHS Signal Word

WARNING

GHS0

Hazard Pictograms

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WHO-GMP, ISO 9001:2008, ISO 14001:2004, FSSC 22000:2013, HALAL, HACCP, FDA, KOSHER, FSSAI, CGMP in Food and Pharma & REACH Compliant.

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GHS 07

## Precautionary Measures

## Hazard Determining components of Labeling

beta-Santalol

alpha-Santalol

## Hazard Statements

H317 May cause an allergic skin reaction

H412 Harmful to aquatic life with long lasting effects

## 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 and Information on Ingredients

### 3.1 Chemical characterisation: Substance

TSCA CAS Number : 11031-45-1

EINECS CAS Number : 234-262-4

Description : Santalum album

### 3.2 Dangerous components:

beta-Santalol (CAS No 77-42-9) ATO 5(3800), SS 1B-H303, H317; Amount: 16 - 24%

alpha-Santalol (CAS No 115-71-9) ATO 5(3800), SS 1B-H303, H317; Amount: 41 - 55%

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**3.3 Additional Information:** For the wordings of listed H statements refer to section 16

## SECTION 4 : First Aid Measure

### 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.

## Section 5: Fire and Explosion Measure

### 5.1 Extinguishing media

Suitable extinguishing agents: CO<sub>2</sub>, 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 (CO<sub>2</sub>)

Smoke and soot

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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 fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting 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

## Section 7: Handling and Storage

7.1 Precautions for safe handling personal protection equipment see point 8.40.0

### Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.

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Moistened solids (e.g. cloth, pulp, filter panel, binder) has to 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 store rooms 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

### 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:

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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.



## Protective gloves

The glove material has to 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 millimeter (Sol-Vex 37-695/Ansell).

The exact break through time has to be found out by the manufacturer of the protective gloves and has to 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:



Tightly sealed goggles according to EN 166:2001 Body protection: Protective work clothing

## Section 9: Physical and Chemical Properties

### General Information

**Form** : Liquid

**Colour** : Clear, pale yellow to colourless

**Odour** : Pleasant sweet woody and persistent

**Odour Threshold** : Not determined

### Change in Condition

**Melting Point °C** : Not determined

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WHO-GMP, ISO 9001:2008, ISO 14001:2004, FSSAI 22000:2013, HALAL, HACCP, FDA, KOSHER, FSSAI, CGMP in Food and Pharma & REACH Compliant.



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Boiling Point ° C	: 279°C @760 mm Hg
Flash Point (Closed Cup) °C	: 136°C
Specific Gravity/Relative Density	: 0.968 - 0.990 @20°C
Refractive Index	: 1.503 - 1.509 @20°C
Vapour Density	: Not determined
Vapour Pressure	: Not determined
<b>Solubility:</b>	
Water	: Insoluble
Alcohol	: Soluble
Flammability	: N/A
Auto Ignition Temperature	: N/A
<b>Explosive Limits</b>	
Lower Explosion Limits	: N/A
Upper Explosion Limits	: N/A
pH value	: Not determined
Optical Rotation	: -12° to -21°
Surface Tension	: Not determined
Partition Coefficient	: Not determined
Granulometry	: Not determined
Oxidising Properties	: Not determined
Viscosity	: N/A

## Section 10: Stability and Reactivity Data

### 10.1 Reactivity

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## 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 selfigniting; but in case of unpropitious storing conditions (air admission, heat accumulation) selfignition

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.

## Section 11: Toxicological Information

### 11.1 Toxicological Information Acute

**Oral** No data available

**Inhalation** No data available

**Skin** No data available

### 11.2 Exposure Limits No data available

**Note :** There is a blanket recommendation of 10 mg/m<sup>3</sup> 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



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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

### 14.1 Land Transport (ADR/RID/GGVSE)

UN Number Not Regulated

DG Class N/A

Packing Group N/A

Proper Shipping Name N/A

Classification code N/A

### 14.2 Sea Transport (IMDG-Code/GGVSE)

**UN Number Not Regulated**

DG Class N/A

Packing Group N/A

Proper Shipping Name N/A

Marine Pollutant N/A

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

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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 3301.29.37**

**EmS Code –**

## Section 15: Other 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.

## Section 16: Other Information

### 16.1 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

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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-TI	International 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 Labelling in accordance with Directive 67/548/EEC

### Symbols

**R43** May cause sensitisation by skin contact

**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

### R-Phrases

**S24** Avoid contact with skin

**S36/37** Wear suitable protective clothing and gloves

### S-Phrases

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

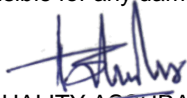

<[http://ec.europa.eu/enterprise/sectors/chemicals/files/ghs/signalwords\\_hs\\_ps\\_en.xls](http://ec.europa.eu/enterprise/sectors/chemicals/files/ghs/signalwords_hs_ps_en.xls)>

## 16.4 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.

We believe the above information to be correct but we do not present it as all inclusive and as such should be used as a guide. **ARORA AROMATICS PVT. LTD.** shall not be held responsible for any damage or injury resulting from contact with the above.

“END OF MATERIAL SAFETY DATA SHEET”

  
QUALITY ASSURANCE 

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