



MATERIAL SAFETY DATASHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION & THE COMPANY/UNDERTAKING

1.1 Product Identifier					
Product Name		Amyris Oil			
Biological Definition		Amyris Balsamifera Bark Oil is the volatile oil distilled from the bark of the tree, Amyris balsamifera, Rutaceae.			
INCI Name		Amyris Balsamifera Bark Oil			
Synonyms & Trade Names		---			
CAS-No	8015-65-4 / 90320-49-3	EC No.	291-076-6	EINECS No.	291-076-6
1.2 Relative identified uses of the substance or mixture and uses advised against					
Flavours Fragrances.					
1.3 Details of the supplier of the safety data sheet					
VENKATRAMNA INDUSTRIES, Talaya Chauki, Kannauj-209725, (UP) INDIA					
1.4 Emergency Tel. No.		+91-9554075786			

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
Hazardous to the Aquatic Environment - Long-term Hazard Category 3 H412, Harmful to aquatic life with long lasting effects.	
2.2 Label Elements	
Signal Word	Warning
	
Hazard Statements	
H412 Harmful to aquatic life with long lasting effects.	
Precautionary Statements	
P273, Avoid release to the environment. P501, Dispose of contents/container to approved disposal site, in accordance with local regulations	
Supplementary Precautionary Statements	

2.3 Other Hazards

PBT or vPvB according to Annex XIII - None.
 Adverse physio-chemical properties - None.
 Adverse effects on human health - None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

1.5% trans-Nerolidol Cas. No: 40716-66-3
 Classification (EC 1272/2008): EDI 2-EH A1-EH C1;H319- H410,-

4. FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Remove person to fresh air and keep at rest
Ingestion	If swallowed, rinse mouth with water. Seek medical advice immediately and show this container or label. Do NOT induce vomiting.
Skin Contact	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eye Contact	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Eye contact: May cause eye irritation and corneal damage if not immediately rinsed out.
 Skin Contact: Repeated contact may cause allergic dermatitis.
 Inhalation: Breathing high concentrations of vapor may cause anesthetic effects.
 Ingestion: Do Not Induce vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

No additional data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Carbon dioxide, dry chemical powder or appropriate foam.

5.2 Special hazards arising from the product

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

5.3 Advice for firefighters

In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

	Wear appropriate gloves to prevent skin exposure. Avoid contact with skin and inhalation of its vapours or smoke. Maintain adequate ventilation in the working area after spilling.
6.2	Environmental Precautions
	Do not discharge into drains, water courses or onto the ground. Dispose of in line with Local authority guidelines.
6.3	Methods and material for containment and cleaning up.
	Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.
6.4	Reference to other sections
	Section 8 - Exposure controls/personal protection for further information on personal precautions. Section 13 - Disposal Considerations for further information on waste treatment.

7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.
7.2	Conditions for safe storage, including any incompatibilities
	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only nonsparking tools. Take precautionary measures against static discharge.
7.3	Specific end use(s)
	Flavours, Fragrances: Use in accordance with good manufacturing and industrial hygiene practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control parameters
	Declaration of substances is not required
8.2	Exposure controls
	Protective Equipment
	  
Process Conditions	Ensure area is well ventilated. Avoid vapour inhalation.
Engineering Measures	No additional data available.
Respiratory Equipment	Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed systems for transferring and processing this material. Also refer to Sections 2 and 7.

Hand Protection	Chemical resistant gloves (PVC)
Eye Protection	Wear approved safety goggles.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene Measures	Good personal hygiene practices are always advisable, especially when working with chemicals / oils.
Personal Protection	Use personal protection according to Directive 89/686/EEC.
Skin Protection	Wear apron or protective clothing in case of splashes.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorized companies.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Viscous Liquid
Colour	Pale yellow to yellow gold.
Odour	sweet, woody.
Relative Density	0.946 – 0.978 (20°C)
Flash Point (°C)	> 100 °C
Refractive Index	1.500 – 1.512(20°C)
Melting Point (°C)	No additional data available
Boiling Point (°C)	No additional data available
Vapour Pressure	No additional data available
Solubility in Water @20°C	Insoluble in water.
Auto-ignition temperature (°C)	No additional data available
9.2 Other information	
No additional data available.	

10. STABILITY AND REACTIVITY

10.1 Reactivity	
Presents no significant reactivity hazard, by itself or in contact with water.	
10.2 Chemical stability	
Stable under normal operating conditions.	
10.3 Possible hazardous reactions	
Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.	
10.4 Conditions to Avoid	
Heat, flames and other sources of ignition. No special precautions other than good housekeeping of chemicals.	
10.5 Incompatible materials	
Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.	
10.6 Hazardous Decomposition Products	
Not expected.	

11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	This material does not meet the criteria for classification for health hazards under Regulation (EC) No 1272/2008. Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: N/A Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: N/A Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: N/A Inhalation Route: N/A Refer to Section 2 for additional information.
Skin corrosion / irritation	May be irritating to skin
Serious eye damage / irritation	May be irritating to eyes. Prompt rinsing and removal of the substance will avoid damage.
Respiratory or skin sensitization	Breathing high concentrations of vapor may cause anesthetic effects.
Germ Cell Mutagenicity	Not listed as mutagenic
Carcinogenicity	Not listed as carcinogenic
Reproductive toxicity	Not listed as reprotoxic
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	Not Specified
Photo-toxicity	Not listed as photo-toxic
Other Information	No additional data available
11.2 Information on the likely routes of exposure	
Skin/scalp contact.	
11.3 Symptoms related to the physical, chemical, and toxicological characteristics	
None known.	
11.4 Delayed and immediate effects and chronic effects from short-term and long-term exposure	
No Data Available	

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Harmful to aquatic life with long lasting effects.
12.2 Persistence & degradability
No data available
12.3 Bioaccumulation Potential
No data available
12.4 Mobility in soil
Not determined
12.5 Results of PBT and vPvB Assessment
No data available
12.6 Other adverse effects

Do not allow product to enter streams, sewers or other waterways.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

14.1 UN number

UN No. Road	Not regulated for transport
UN No. SEA	Not regulated for transport
UN No. AIR	Not regulated for transport

14.2 UN proper shipping name

Not classified

14.3 Transport hazard class(es)

ADR/RID/ADN Not regulated for transport

ADR/RID/ADN Class - - -

IMDG Class - - -

ICAO Class/Division - - -

14.4 Packing group

ADR/RID/ADN Packing group Not regulated for transport

IMDG Packing group - - -

ICAO Packing group - - -

14.5 Environmental hazards

Do not allow to escape into environment, especially not into waterways, sewers or the sea.

14.6 Special precautions for user

EMS: Not allocated

Emergency Action Code: Not allocated

Hazard No. (ADR): Not allocated

Tunnel Restriction Code (E) Not assigned

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

N/A

15. REGULATORY INFORMATION

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

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code of Practise

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

Guidance Notes

CHIP for everyone HSG(108). Workplace Exposure Limits EH40

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out for this product.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H412 harmful to aquatic life with long lasting effects
Other Information	None found

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

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