




## MATERIAL SAFETY DATASHEET

Date of Issue: 20/01/2020	Document No: VRI/MSDS/01-028
Revision Date: 11/07/2020	Revision No: 01

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

1.1 Product Identifier					
Product Name		Calamus Root Oil			
Biological Definition		Calamus Oil; "Sweet Flag Oil". Acorus Calamus Root Oil is an essential oil obtained from the rhizomes of the calamus, Acorus calamus L., Araceae. It contains beta-asarone (up to 76%), calamene (about 4%), calamol (about 3%) alpha-asarone (about 1%), camphene (about 1%) and some beta-pinene and asaronaldehyde			
INCI Name		<i>Acorus calamus root oil</i>			
Synonyms & Trade Names		---			
CAS-No	84775-39-3	EC No. s	283-869-0	EINECS No.	N/A
1.2 Relative identified uses of the substance or mixture and uses advised against					
Industrial uses. Formulation [mixing] of preparations. Uses advised against: Other uses than those recommended.					
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	
Classification according to the Regulation (EC) No 1272/2008. Acute toxicity (oral), Hazard Category 4; Hazardous to the aquatic environment — long-term hazard, category chronic 3.	
2.2 Label Elements	
Signal Word	Warning
	
Hazard Statements	
H317: May cause an allergic skin reaction.	
Precautionary Statements	
P102 - Keep out of the reach of children.	

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
 P280: Wear protective gloves. P302+P352: IF ON SKIN: Wash with plenty of water.  
 P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364: Take off contaminated clothing and wash it before reuse.  
 P501: Dispose of contents/container to an approved waste disposal plant.

#### Supplementary Precautionary Statements

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### 2.3 Other Hazards

May cause skin irritation/allergy. Patch test recommended.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Root Oil 100 % weight
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## 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. For safety reasons do not use full water jet

### 5.2 Special hazards arising from the product

None known

### 5.3 Advice for firefighters

In case of fire in the surrounding area, follow the recommendations below:  
 1-Closed containers may build up pressure at elevated temperatures.  
 2-Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.  
 3-Prevent run-off from fire fighting to enter drains or water courses.


## 6. ACCIDENTAL RELEASE MEASURES

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	
	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.
<b>6.2 Environmental Precautions</b>	
	Avoid contaminating the environment via the sewers or water sources.
<b>6.3 Methods and material for containment and cleaning up.</b>	
	Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash). Ventilate area and wash spill site after material pickup is complete. Dispose of in accordance with current laws and regulations.
<b>6.4 Reference to other sections</b>	
	See also sections 8 and 13.

## 7. HANDLING AND STORAGE

<b>7.1 Precautions for safe handling</b>	
	Keep away from food, drink and animal feeding stuffs. Do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	
	Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.
<b>7.3 Specific end use(s)</b>	
	No additional data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>8.1 Control parameters</b>	
Declaration of substances is not required	
<b>8.2 Exposure controls</b>	
Protective Equipment	
	
Process Conditions	Provide eyewash station.
Engineering Measures	Provide adequate ventilation.
Respiratory Equipment	For high concentrations use respiratory equipment.
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
Color	Yellow to Brown
Odor	Sweet earthy
Relative Density	No additional data available
Flash Point (°C)	>93 °C
Refractive Index	1.525 – 1.580 (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	
No dangerous reactions known.	
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	
Carbon monoxide and other unidentified organic compounds may be formed upon combustion.	

## 11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	This substance does not meet the criteria for classification in accordance with Regulation (EC) No 1272/2008
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. Irritation of the eye if exposed. Redness of the skin if irritated	
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	
Acute fish toxicity: LC50 / 96 HOUR – No data available Toxicity to aquatic plants – No data available Toxicity to microorganisms – No data available Toxicity threshold – No data available	
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

Container disposal: Do not reuse empty containers.

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way

## 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

Substances are either included in EINECS, ELINCS, NLP inventories or exempt.

### 15.2 Chemical safety assessment

No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R68: Possible risk of irreversible effects. Text of hazard statement codes in section 3: H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H341: Suspected of causing genetic defects. H351: Suspected of causing cancer. H411: Toxic to aquatic life with long lasting effects
Other Information	This material should only be used for industrial purposes.

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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