




## MATERIAL SAFETY DATASHEET

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

<b>1.1 Product Identifier</b>					
Product Name		Moringa Oil			
Biological Definition		<i>Moringa oleifera</i> . cold pressed carrier oil extracted from its seeds.			
INCI Name		NA			
Synonyms & Trade Names		---			
CAS-No	N/A	EC No.	N/A	EINECS No.	N/A
<b>1.2 Relative identified uses of the substance or mixture and uses advised against</b>					
Industrial uses. Formulation [mixing] of preparations. Uses advised against: Other uses than those recommended.					
<b>1.3 Details of the supplier of the safety data sheet</b>					
VENKATRAMNA INDUSTRIES, Talaya Chauki, Kannauj-209725, (UP) INDIA					
<b>1.4 Emergency Tel. No.</b>		+91-9554075786			

## 2. HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b>	
Classification according to the Regulation (EC) No 1272/2008. Sensitization — Skin, Hazard Category 1; H317.	
<b>2.2 Label Elements</b>	
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/vapours/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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<b>2.3 Other Hazards</b>
May cause skin irritation/allergy. Patch test recommended.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Property	Moringa Carrier Oil
<b>Botanical Name</b>	Moringa oleifera
<b>Common Names</b>	Moringa oil
<b>Extraction Method</b>	Cold-pressed
<b>Appearance</b>	Pale yellow to greenish-yellow liquid
<b>Odor</b>	Light, earthy aroma
<b>Shelf Life</b>	Approximately 1-2 years when stored in a cool, dark place
<b>Fatty Acid Composition (%)</b>	
<b>Saturated Fatty Acids</b>	7-12%
<b>Monounsaturated Fatty Acids</b>	65-75%
<b>Polyunsaturated Fatty Acids</b>	5-15%
<b>Vitamins and Minerals</b>	
<b>Vitamin E</b>	High levels
<b>Other Vitamins and Minerals</b>	Vitamin A, Vitamin C, antioxidants
<b>Other Components</b>	
<b>Antioxidants</b>	High levels
<b>Phytosterols</b>	Present
<b>Other Bioactive Compounds</b>	Phenolic compounds, flavonoids
<b>Allergen Information</b>	Nut-free
<b>Storage Conditions</b>	Store in a cool, dark place away from sunlight

### 4. FIRST AID MEASURES

<b>4.1 Description of first aid measures</b>	
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.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	
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.	
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	
No additional data available	

## 5. FIRE-FIGHTING MEASURES

<b>5.1</b>	<b>Extinguishing Media</b>
	Carbon dioxide, dry chemical powder or appropriate foam. For safety reasons do not use full water jet
<b>5.2</b>	<b>Special hazards arising from the product</b>
	None known
<b>5.3</b>	<b>Advice for firefighters</b>
	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</b>	<b>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</b>	<b>Environmental Precautions</b>
	Avoid contaminating the environment via the sewers or water sources.
<b>6.3</b>	<b>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</b>	<b>Reference to other sections</b>
	See also sections 8 and 13.

## 7. HANDLING AND STORAGE

<b>7.1</b>	<b>Precautions for safe handling</b>
	Keep away from food, drink and animal feedingstuffs. Do not smoke. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.
<b>7.2</b>	<b>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</b>	<b>Specific end use(s)</b>
	No additional data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Declaration of substances is not required

## 8.2 Exposure controls

### 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	Transparent
Colour	Colorless
Odour	Odorless
Relative Density	No additional data available
Flash Point (°C)	95 °C
Refractive Index	No additional data available
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.
<b>10.3 Possible hazardous reactions</b>
Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.
<b>10.4 Conditions to Avoid</b>
Heat, flames and other sources of ignition. No special precautions other than good housekeeping of chemicals.
<b>10.5 Incompatible materials</b>
Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.
<b>10.6 Hazardous Decomposition Products</b>
Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

## 11. TOXOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
Acute Toxicity	No additional data available
Skin corrosion / irritation	No additional data available
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
<b>11.2 Information on the likely routes of exposure</b>	
Skin/scalp contact.	
<b>11.3 Symptoms related to the physical, chemical, and toxicological characteristics</b>	
None known. Irritation of the eye if exposed. Redness of the skin if irritated	
<b>11.4 Delayed and immediate effects and chronic effects from short-term and long-term exposure</b>	
No Data Available	

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity</b>
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

<b>13.1 Waste treatment methods</b>
Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site. 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

<b>14.1 UN number</b>	
UN No. Road	Not regulated for transport
UN No. SEA	Not regulated for transport
UN No. AIR	Not regulated for transport
<b>14.2 UN proper shipping name</b>	
Not classified	
<b>14.3 Transport hazard class(es)</b>	
ADR/RID/ADN Not regulated for transport	
ADR/RID/ADN Class - - -	
IMDG Class - - -	
ICAO Class/Division - - -	
<b>14.4 Packing group</b>	
ADR/RID/ADN Packing group Not regulated for transport	
IMDG Packing group - - -	
ICAO Packing group - - -	
<b>14.5 Environmental hazards</b>	
Do not allow to escape into environment, especially not into waterways, sewers or the sea.	
<b>14.6 Special precautions for user</b>	
EMS: Not allocated	
Emergency Action Code: Not allocated	
Hazard No. (ADR): Not allocated	
Tunnel Restriction Code (E) Not assigned	
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78° and IBC Code</b>	

N/A

## 15. REGULATORY INFORMATION

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture
	Not available
15.2	Chemical safety assessment
	No additional information available.

## 16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H317: NA
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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