

VENKATRAMNA INDUSTRIES

Manufacturer & Exporter of All kinds of Oils, i.e.: Natural & Organic Essential Oil, Attars, Perfumes, Absolutes & Flore Waters, Spice Oils and Peppermint Products

An ISO 9001:2008 & ISO 22000:2005 Certified Company IEC No.: 0611008513 GST No.: 09AVOPS2676K1ZN Manufacturing Plant.: Talaya Chauki, Kannauj-209725, India Corporate Office.: C1-310, MIG Indira Nagar, Kanpur-208026, India



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MATERIAL SAFETY DATASHEET		
Date of Issue: 20/01/2020	Document No: VRI/MSDS/01-095	
Revision Date: 11/07/2020	Revision No: 01	

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

Prod	uct Name		Garlic			
Biological Definition			Allium Sativum Bulb Oil is the oil expressed from the bulb of the Garlic, Allium sativum L., Liliaceae.			
INCI Name			Allium Sativu	Allium Sativum Bulb Oil		
Syno	nyms & Trade Nam	ies				
CAS-I	No	8000-78-0	EC No.	N/A	EINECS No.	N/A
1.2 Relative identified uses of the substance or mixture and uses advised against						
Indus	trial uses. Formula	tion [mixing] of	preparations. Use	es advised against	: Other uses than the	ose recommended.
1.3	.3 Details of the supplier of the safety data sheet					
VEN	KATRAMNA INDUS	TRIES, Talaya Ch	auki, Kannauj-20	9725, (UP) INDIA		
1.4	Emergency Tel.	No.	+91-9554	075786		

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or m	ixture		
Classification according to the Regulation (EC)	Classification according to the Regulation (EC) No 1272/2008. Sensitization — Skin, Hazard Category 1; H317.		
2.2 Label Elements	2.2 Label Elements		
Signal Word	Warning		
Hazard Statements			
H304:May be fatal if swallowed and enters airways.			
H317: May cause allergic skin reaction.			
H320: Causes eye irritation.			
Precautionary Statements			
P102: Keep out of the reach of children.			
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.			
P280: Wear protective gloves.			
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.			

P370 + P378: In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction. P403 + P235:Store in well-ventilated place. Keep cool.
P501: Dispose of contents/container to an approved waste disposal plant.
P301 + P310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.
P331:Do NOT induce vomiting.
P405: Store locked up.
P264:Wash hands thoroughly after handling.
P302 + P352: IF ON SKIN: Wash with plenty of water/soap.
P362 + P364 :Take off contaminated clothing and wash it before reuse.
Supplementary Precautionary Statements
--2.3 Other Hazards
May cause skin irritation/allergy. Patch test recommended.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	
	Diallyl trisulphide oxide (19 – 21 %),	
	diallyl disulphide oxide (57 – 63 %),	
	diallyl sulfide,	
	ajoene	

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 imp	portant 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 Indicatio	n of any immediate medical attention and special treatment needed		
No additio	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

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	
	Avoid contaminating the environment via the sewers or water sources.
6.3	Methods and material for containment and cleaning up.
	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.
6.4	Reference to other sections
	See also sections 8 and 13.

7. HANDLING AND STORAGE

7.1	Precautions for safe handling
	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.
7.2	Conditions for safe storage, including any incompatibilities
	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.
7.3	Specific end use(s)
	No additional data available.

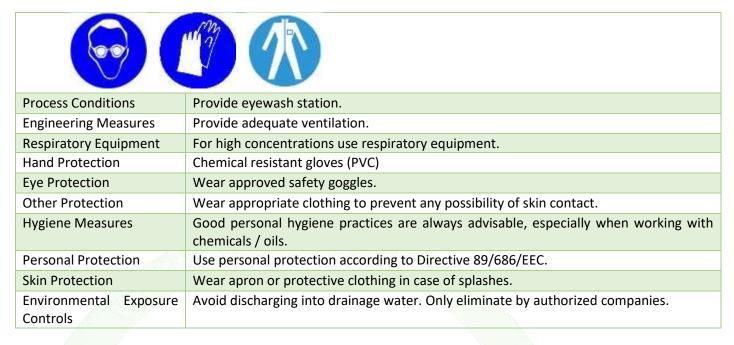
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	Control	parameters
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Declaration of substances is not required

8.2 Exposure controls

Protective Equipment



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance	Clear Liquid	
Colour	Yellow to Orange Red	
Odour	Very strong characteristic garlic odor	
Relative Density	0.411 g/cm ³ (20 °C)	
Flash Point (°C)	46 °C	
Refractive Index	1.559 – 1.589 (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	No additional data available	
temperature (°C)		
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 route	es 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

May be toxic to aquatic organis Avoid any pollution of ground,	m may cause long-term adverse effects in the aquatic environment. surface or underground water.
.2 Persistence & degradability	
No data available	
.3 Bioaccumulation Potential	
No data available	
.4 Mobility in soil	

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

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

14.1 UN number UN No. Road 1169 UN No. SEA 1169 UN No. AIR 1169 14.2 UN proper shipping name Extract, aromatic, liquid 14.3 14.3 Transport hazard class(es) ADR/RID/ADN Not regulated for transport ADR/RID/ADN Class - 3 IMDG Class -3 ICAO Class/Division - 3 14.4 Packing group ADR/RID/ADN Packing group Not regulated for transport IMDG Packing group - 3 ICAO Packing group - 3 ICAO Packing group - 3 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				
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14.6 Special precautions for user EMS: Not allocated	14.5	Environmental hazards		
EMS: Not allocated		Do not allow to escape into	environment, especially not into waterways, sewers or the sea.	
	14.6	Special precautions for	user	
Hazard No. (ADR): Not allocated Tunnel Restriction Code (E) Not assigned		Emergency Action Code: No Hazard No. (ADR): Not alloc	ated	
14.7 Transport in bulk according to Annex II of MARPOL 73/78° and IBC Code	14.7	Transport in bulk accordin	g to Annex II of MARPOL 73/78° and IBC Code	
N/A		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: May cause allergic skin reaction.
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.

