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MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Lemongrass Oil (Flexuosus) Organic			
Biological Definition		Cymbopogon Flexuosus Oil is the volatile oil obtained from the dried Lemon Grass, Cymbopogon flexuosus, Poaceae.			
INCI Name		Cymbopogon Flexuosus Oil			
Synonyms & Trade Names		Lemon Grass Oil; Indian Verbena Oil; Indian Melissa Oil			
CAS-No	91844-92-7	EC No.	295-161-9	EINECS No.	295-161-9
1.2 Relative identified uses of the substance or mixture and uses advised against					
Suitable for use in cosmetics, fragrances, flavourings and professional applications only.					
1.3 Details of the supplier of the safety data sheet					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

02. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture			
The full text for all hazard statements is displayed in section 16.			
Classification (EC 1272/2008)			
Physical hazards:	Not classified.		
Health hazards:	Asp. Tox. 1 - H304, Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1B - H317.		
Environmental hazards:	Aquatic Chronic 2 - H411.		
2.2 Label Elements			
Label in accordance with (EC) No 1272/2008			
GHS05	GHS08	GHS07	GHS09
Signal Word		Danger	
Contains		Geraniol	
Hazard Statements			
H304: May be fatal if swallowed and enters airways.			
H315: Causes skin irritation.			
H317: May cause an allergic skin reaction.			

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H318: Causes serious eye damage.
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements

P261: Avoid breathing vapour/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310: Immediately call a POISON CENTER or doctor/physician.
P331: Do NOT induce vomiting.
P333+313: If skin irritation or rash occurs: Get medical advice/attention.
P391: Collect spillage.
P501: Dispose of contents in accordance with local, state or national legislation.

Supplementary Precautionary Statements

P264: Wash contaminated skin thoroughly after handling.

2.3 Other Hazards

PBT or vPvB according to Annex XIII	No additional data available.
Adverse physio-chemical properties	No additional data available.
Adverse effects on human health	No additional data available.

03. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

≤82.0% Citral

CAS: 5392-40-5 EC: 226-394-6
Classification (EC 1272/2008): Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Eye Irrit. 2 - H319

≤8.0% Geraniol

CAS: 106-24-1 EC: 203-377-1
Classification (EC 1272/2008): Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Eye Dam. 1 - H318

≤8.0% Limonene

CAS: 5989-27-5 EC: 227-813-5
Classification (EC 1272/2008): Flam. Liq. 3 - H226
Asp. Tox. 1 - H304
Skin Irrit. 2 - H315
Skin Sens. 1 - H317
Aquatic Acute 1 - H400
Aquatic Chronic 1 - H410

≤2.0% Linalool

CAS: 78-70-6 EC: 201-134-4
Classification (EC 1272/2008): Skin Irrit. 2 - H315

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<p>Skin Sens. 1B - H317 Eye Irrit. 2- H319</p>
<p>≤2.0% alpha-Pinene CAS: 80-56-8 EC: 201-291-9 Classification (EC 1272/2008): Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Asp. Tox. 1 - H304, Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</p>
<p>≤2.0% Myrcene CAS: 123-35-3 EC: 204-622-5 Classification (EC 1272/2008): Flam. Liq. 3 - H226 Asp. Tox. 1 - H304 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Aquatic Acute 1- H400 Aquatic Chronic 1 - H410</p>

04. FIRST AID MEASURES

4.1 Description of first aid measures	
Inhalation	Remove from exposure area to fresh air. Get medical advice/attention.
Ingestion	Do not induce vomiting. Ingestion may cause nausea and vomiting. Immediately rinse mouth and provide fresh air. Get medical advice/attention.
Skin Contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical advice/attention if any discomfort continues.
Eye Contact	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical advice/attention. Continue to rinse.
4.2 Most important symptoms and effects, both acute and delayed	
No additional data available.	
4.3 Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.	

05. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media	
Extinguishing media: Carbon dioxide (CO ₂). Dry chemical powder.	
5.2 Special hazards arising from the product	
When heated and in case of fire, irritating vapours/gases may be formed.	
5.3 Advice for firefighters	
Avoid inhalation of generated fumes or vapours. Wear self-contained breathing apparatus and appropriate protective clothing.	

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06. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective clothing as described in Section 8 of this safety data sheet. Handle the product using protective gloves resistant to the chemicals exposed. 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.
6.3 Methods and material for containment and cleaning up.
Absorb with liquid binding material e.g. sand, diatomaceous earth. Collect in closed and suitable containers for disposal. Prevent any material from entering drains or waterways. Wash spill site after removal with a detergent.
6.4 Reference to other sections
See sections 4, 7, 8 & 13.

07. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin, eyes and clothing. Avoid breathing vapours.
7.2 Conditions for safe storage, including any incompatibilities
Store in tightly-closed, original container in a dry, cool and well-ventilated area, away from potential sources of ignition and protected from light.
7.3 Specific end use(s)
No additional data available.

08. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters
No additional data available.
8.2 Exposure controls
Protective Equipment

Process Conditions
Provide eyewash station.
Engineering Measures
Provide adequate ventilation.
Respiratory Equipment
Generally unnecessary in a well ventilated area. If ventilation is insufficient, respiratory protection must be worn.
Hand Protection
Wear suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.
Eye Protection
Avoid contact with eyes. Wear safety goggles in accordance with standard EN166.

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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 of chemical resistant clothing is recommended when handling.
Skin Protection	Wear apron or protective clothing to avoid skin contact.
Environmental Exposure Controls	Avoid discharging into drainage water. Only eliminate by authorised companies.

09. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties	
Appearance	Liquid.
Colour	Bright yellow.
Odour	Characteristic – Citral, fresh, intense.
Relative Density	Approx. 0.899 @ 20°C
Flash Point (°C)	71.0 - 85.0
Refractive Index	Approx. 1.485 @ 20°C
Melting Point (°C)	No additional data available.
Boiling Point (°C)	No additional data available.
Vapour Pressure	0.05 mmHg.
Solubility in Water @20°C	1:10 v/v Ethanol 90%
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 hazards. Stable under normal temperature conditions and recommended use.	
10.2 Chemical stability	
Stable under the recommended handling and storage conditions.	
10.3 Possible hazardous reactions	
No additional data available.	
10.4 Conditions to Avoid	
Avoid heat, flames and other sources of ignition.	
10.5 Incompatible materials	
Avoid strong acids, alkalis and oxidising agents.	
10.6 Hazardous Decomposition Products	
In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.	

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11. TOXOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute Toxicity	Not classified.
Skin corrosion / irritation	Causes skin irritation.
Serious eye damage / irritation	Causes serious eye damage.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
STOT-single exposure	Not classified.
STOT-repeated exposure	Not classified.
Aspiration hazard	May be fatal if swallowed and enters airways.
Photo-toxicity	No additional data available.
Other Information	No additional data available.

12. ECOLOGICAL INFORMATION

12.1 Toxicity	
	Toxic to aquatic life with long lasting effects.
12.2 Persistence & degradability	
	No additional data available.
12.3 Bioaccumulation Potential	
	No additional data available.
12.4 Mobility in soil	
	No additional data available.
12.5 Results of PBT and vPvB Assessment	
	No additional 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	
	General information Do not re-use empty containers. Empty residue into a suitable disposal site. Dispose of in compliance with all local and national regulations.

14. TRANSPORT INFORMATION

14.1 UN number	
UN No. Road	3082
UN No. SEA	3082

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UN No. AIR	3082
14.2 UN proper shipping name	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.	
14.3 Transport hazard class(es)	
ADR/RID/ADN Class: 9 Miscellaneous dangerous substances and articles. IMDG Class: 9 Miscellaneous dangerous substances and articles. ICAO Class/Division: 9 Miscellaneous dangerous substances and articles. Transport Labels 	
14.4 Packing group	
ADR/RID/ADN Packing group: III IMDG Packing group: III ICAO Packing group: III	
14.5 Environmental hazards	
Environmentally Hazardous Substance/Marine Pollutant 	
14.6 Special precautions for user	
EMS F-A-S-F Emergency Action Code 3Z Hazard No. (ADR) 90 Environmentally hazardous substance; miscellaneous dangerous substances.	
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC code	
No additional data available.	

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). Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG(108). EU Legislation

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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

No additional information available.

16. OTHER INFORMATION

Hazard and/or Precautionary Statements in Full	H226: Flammable liquid and vapour. H304: May be fatal if swallowed and enters airways. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H319: Causes serious eye irritation. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects.
Revision Date	6/11/2019
Rev No/Repl, SDS Generated	4

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