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# MATERIAL SAFETY DATA SHEET

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

1.1 Product Identifier					
Product Name		Lemongrass (Flexuosus) Oil			
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					
William Hodgson & Company Unit 3 The Dairy Gawsworth Business Court Shellow Lane North Rode Congleton Cheshire CW12 2FQ.					
1.4 Emergency Tel. No.		+ 44 (0) 1260 222 943			

## 02. HAZRD 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.	

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H317: May cause an allergic skin reaction.  
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-No.: 5392-40-5 EC No.: 226-394-6

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Irrit. 2 - H319

**≤8.0% Geraniol** CAS-No.: 106-24-1 EC No.: 203-377-1

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1 - H317, Eye Dam. 1 - H318

**≤8.0% Limonene** CAS-No.: 5989-27-5 EC No.: 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-No.: 78-70-6 EC No: 201-134-4

Classification (EC 1272/2008) Skin Irrit. 2 - H315, Skin Sens. 1B - H317, Eye Irrit. 2 - H319

**≤2.0% alpha-Pinene** CAS-No.: 80-56-8 EC No: 201-291-9

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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

≤2.0% Myrcene CAS-No.: 123-35-3 EC No: 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

## 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<sub>2</sub>). 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.

## 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.

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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.
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

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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.
<b>9.2 Other information</b>	
No additional data available.	

### 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	
	Presents no significant reactivity hazards. Stable under normal temperature conditions and recommended use.
<b>10.2 Chemical stability</b>	
	Stable under the recommended handling and storage conditions.
<b>10.3 Possible hazardous reactions</b>	
	No additional data available.
<b>10.4 Conditions to Avoid</b>	
	Avoid heat, flames and other sources of ignition.
<b>10.5 Incompatible materials</b>	
	Avoid strong acids, alkalis and oxidising agents.
<b>10.6 Hazardous Decomposition Products</b>	
	In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

### 11. TOXOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	
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.

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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

<b>12.1 Toxicity</b>
Toxic to aquatic life with long lasting effects.
<b>12.2 Persistence &amp; degradability</b>
No additional data available.
<b>12.3 Bioaccumulation Potential</b>
No additional data available.
<b>12.4 Mobility in soil</b>
No additional data available.
<b>12.5 Results of PBT and vPvB Assessment</b>
No additional data available.
<b>12.6 Other adverse effects</b>
Do not allow product to enter streams, sewers or other waterways.

## 13. DISPOSAL CONSIDERATIONS

<b>13.1 Waste treatment methods</b>
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
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	

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## 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  
 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.

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### 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	21/11/2019
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**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.