

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Commercial Product Name : LEMONGRASS OIL BIO  
Material number : 192079  
CAS-No. : 91844-92-7, 8007-02-1  
EC-No. : 295-161-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Fragrance

#### 1.3 Details of the supplier of the safety data sheet

Company :

Telephone :

Telefax :

E-mail address :

#### 1.4 Emergency telephone number

Emergency telephone number :

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315
Eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020,

Print Date:18.02.2021

Hazard statements	: H315 H317 H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
Precautionary statements	: <b>Prevention:</b> P264 P280  <b>Response:</b> P302 + P352 P305 + P351 + P338  P333 + P313  P337 + P313	Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.  IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.
Contains	: CITRAL, GERANYL ACETATE, 3,7-DIMETHYL-2,6-OCTADIENE-1-OL, LINALOOL.	

### 2.3 Other hazards

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical characterization	: Cymbopogon flexuosus, ext.
CAS-No.	: 91844-92-7, 8007-02-1
EINECS-No. / ELINCS No.	: 295-161-9

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number.	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Citral	5392-40-5 226-394-6	Eye Irrit.: 2; H319 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317	>= 50 - <= 100
Geranyl acetate	105-87-3 203-341-5	Skin Irrit.: 2; H315 Aquatic Chronic: 3; H412 Skin Sens.: 1B; H317	>=1-<5
Geraniol	106-24-1 203-377-1	Skin Irrit.: 2; H315 Eye Dam.: 1; H318 Skin Sens.: 1B; H317	>=1-<5

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

Linalool	78-70-6 201-134-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	>=1-<5
[1R-(1R*,4R*,6R*,10S*)]-4,12,12-Trimethyl-9-methylene-5-oxatricyclo[8.2.0.0.4,6]dodecane	1139-30-6 214-519-7	Aquatic Chronic: 2; H411	>=0,1-<1
Caryophyllene <sup>2)</sup>	87-44-5 201-746-1	Asp. Tox.: 1; H304 Skin Sens.: 1B; H317	>=0,1-<1
Eugenol	97-53-0 202-589-1	Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	>=0,1-<1
Isoeugenol	97-54-1 202-590-7	Acute Tox.: 4 (Oral); H302 Acute Tox.: 4 (Dermal); H312 Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1A; H317	>=0,1-<1
Benzyl benzoate <sup>1)</sup>	120-51-4 204-402-9	Acute Tox.: 4 (Oral); H302 Aquatic Acute: 1; H400 Aquatic Chronic: 2; H411	>=0,1-<1
Citronellol	106-22-9 203-375-0	Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Eye Irrit.: 2; H319	>=0,1-<1
(R)-p-Mentha-1,8-diene	5989-27-5 227-813-5	Asp. Tox.: 1; H304 Aquatic Chronic: 1; H410 Aquatic Acute: 1; H400 Skin Sens.: 1B; H317 Skin Irrit.: 2; H315 Flam. Liq.: 3; H226	>=0,1-<1
Acetone	67-64-1 200-662-2	Flam. Liq.: 2; H225 Eye Irrit.: 2; H319 STOT SE: 3; H336	>=0,1-<1
Cinnamaldehyde	104-55-2 203-213-9	Acute Tox.: 4 (Dermal); H312 Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1A; H317	>= 0,001 - < 0,025

For the full text of the H-Statements mentioned in this Section, see Section 16.

Acute aquatic toxicity:

<sup>1)</sup> 0,1 < L(E)C50 <= 1 mg/l

<sup>2)</sup> 0,01 < L(E)C50 <= 0,1 mg/l

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Never give anything by mouth to an unconscious person.
- Inhalation : Move to fresh air.
- Skin contact : Take off all contaminated clothing immediately.  
If skin irritation persists, call a physician.  
Wash off immediately with plenty of water for at least 15 minutes.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020,

Print Date:18.02.2021

- Eye contact : Protect unharmed eye.  
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.  
Remove contact lenses.
- Ingestion : Clean mouth with water and drink afterwards plenty of water.  
Prevent vomiting if possible.  
If a person vomits when lying on his back, place him in the recovery position.  
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

---

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Extinguishing media which shall not be used for safety reasons : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not use a solid water stream as it may scatter and spread fire.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : In the event of fire and/or explosion do not breathe fumes.  
Use water spray to cool unopened containers.

---

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

### 6.2 Environmental precautions

- Environmental precautions : Avoid suboil penetration.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and materials for containment and cleaning up

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

Additional advice : Dam up.  
Wipe up with absorbent material (e.g. cloth, fleece).  
: Local authorities should be advised if significant spillages cannot be contained.  
Suppress (knock down) gases/vapours/mists with a water spray jet.

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.

Advice on protection against fire and explosion : When using do not smoke.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container.  
Keep container tightly closed in a dry and well-ventilated place.  
To maintain product quality, do not store in heat or direct sunlight.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Fragrance

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters, Germany:

Components	CAS-No.	Control parameters	Update	Basis
(R)-p-Mentha-1,8-diene	5989-27-5	AGW 5 ppm	04 2013	TRGS 900
Acetone	67-64-1	AGW 500 ppm TWA 500 ppm	03 2015 12 2009	TRGS 900 EU ELV(DE)

#### Components with workplace control parameters, United Kingdom:

Components	CAS-No.	Control parameters	Update	Basis
Acetone	67-64-1	TWA 500 ppm STEL 1.500 ppm TWA 500 ppm	12 2009 12 2011 12 2011	EU ELV(GB) EH40 WEL EH40 WEL

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020.

Print Date:18.02.2021

### Components with workplace control parameters, Spain:

Components	CAS-No.	Control parameters	Update	Basis
Citral	5392-40-5	VLA-ED 5 ppm	2013	VLA (ES)
Acetone	67-64-1	VLA-ED 500 ppm TWA 500 ppm	2012 12 2009	VLA (ES) EU ELV(ES)

### Components with workplace control parameters, France:

Components	CAS-No.	Control parameters	Update	Basis
Acetone	67-64-1	VME 500 ppm VLE 1.000 ppm TWA 500 ppm	07 2012 07 2012 12 2009	INRS (FR) INRS (FR) EU ELV(FR)

### Components with workplace control parameters, Austria:

Components	CAS-No.	Control parameters	Update	Basis
Acetone	67-64-1	TWA 500 ppm	12 2009	EU ELV(AT)

### Components with workplace control parameters, Poland:

Components	CAS-No.	Control parameters	Update	Basis
Citral	5392-40-5	NDSch 54 mg/m3 NDS 27 mg/m3	12 2011 12 2011	POL MAC POL MAC
Acetone	67-64-1	NDS 600 mg/m3 NDSch 1.800 mg/m3 TWA 500 ppm	12 2011 12 2011 12 2009	POL MAC POL MAC EU ELV(PL)

## 8.2 Exposure controls

### Engineering measures

none

### Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.  
Wear chemicals-resistant gloves, e.g. safety gloves of chloroprene Level 2 or of butyl rubber Level 6.
- Eye protection : Safety glasses
- Skin and body protection : Lightweight protective clothing  
Remove and wash contaminated clothing before re-use.
- Hygiene measures : Wash hands before breaks and immediately after handling the product.
- Protective measures : Avoid contact with skin.  
When using, do not eat, drink or smoke.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date: 18.02.2021

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

##### Appearance

Form	: clear liquid
Colour	: dark yellow
Odour	: characteristic
Odour Threshold	: No data available

##### Safety data

Flash point	: 94 °C
Water solubility	: immiscible
Relative density	: 0,8870 – 0,9070 at 20°C relation to density of water at 4°C
Bulk density	:
Relative vapour density	: not determined
Vapour pressure	: < 1 kPa at 50 °C calculated
Melting point/freezing point	: not determined
Boiling point	: not determined
Partition coefficient: n-octanol/water	: log Pow: not determined
pH	: Not applicable
Evaporation rate	: Lower than the evaporation rate of butyl acetate = 1
Flammability (solid, gas)	: Not applicable
Auto-ignition temperature	: The substance or mixture is not classified as self heating.
Decomposition temperature	: No data available
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Explosive properties	: Due to its structural properties, the product is not classified as explosive
Lower explosion limit	: Vapours may form explosive mixtures with air.
Upper explosion limit	: Vapours may form explosive mixtures with air. A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

### 9.2 Other data

None.

## SECTION 10: STABILITY AND REACTIVITY

- |  |   |
|--|---|
| <b>10.1 Reactivity</b>                         | : No data available   |
| <b>10.2 Chemical stability</b>                 | : No data available   |
| <b>10.3 Possibility of hazardous reactions</b> | : No dangerous reaction known under conditions of normal use. |
| <b>10.4 Conditions to avoid</b>                | : No data available   |
| <b>10.5 Incompatible materials to avoid</b>    | : No data available   |
| <b>10.6 Hazardous decomposition products</b>   | : No data available   |

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

- |  |                     |
|--|---------------------|
| Acute oral toxicity                                | : No data available |
| Acute inhalation toxicity                          | : No data available |
| Acute dermal toxicity                              | : No data available |
| Repeated dose toxicity                             | : No data available |
| Acute toxicity (other routes of administration)    | : No data available |
| Skin irritation                                    | : No data available |
| Eye irritation                                     | : No data available |
| Sensitisation                                      | : No data available |
| Mutagenicity                                       | : No data available |
| Carcinogenicity                                    | : No data available |
| Reproductive toxicity                              | : No data available |
| Teratogenicity                                     | : No data available |
| Specific target organ toxicity - single exposure   | : No data available |
| Specific target organ toxicity - repeated exposure | : No data available |
| Aspiration toxicity                                | : No data available |



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### 12.6 Other adverse effects

None known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Product : Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

Not classified as dangerous in the meaning of transport regulations.

#### 14.2 Proper shipping name

Not classified as dangerous in the meaning of transport regulations.

#### 14.3 Transport hazard class

Not classified as dangerous in the meaning of transport regulations.

#### 14.4 Packing group

Not classified as dangerous in the meaning of transport regulations.

#### 14.5 Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

#### 14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not classified as dangerous in the meaning of transport regulations.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## LEMONGRASS OIL BIO

Version 12

Revision Date 15.01.2020

Print Date:18.02.2021

### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

##### National legislation

Risk classification according to BetrSichV (Germany) : Flash Point > 55 °C up to 100 °C, at 15 °C not miscible with water

Water contaminating class (Germany) : WGK 2 (water endangering)  
3.820

#### 15.2 Chemical safety assessment

No data available

### SECTION 16: OTHER INFORMATION

#### Full text of H-Statements referred to under sections 2 and 3.:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
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.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

#### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

Any data changes with reference to previous versions are marked by a vertical line in front of the concerned paragraph.