

Hangzhou Felshare Biotechnology Co., Ltd
 Tel: +86-400-0571-900
<http://www.felshare.com>

Product:lemongrass
Product No:FS2007967

Version 1.0
 2020-01-11

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

1.1 Product identifier

Commercial Product Name : lemongrass
 Material number : FS2007967

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

Use of the Substance/Mixture : Fragrance mix

1.3 Details of the supplier of the safety data sheet

Company : HANGZHOU FELSHARE BIOTECHNOLOGY CO., LTD
 address : 3/F Building 4, No.1672 Nanhuan Road, Binjiang District, Hangzhou, Zhejiang, China
 Telephone : +86-400-0571-900
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 Website : <https://www.felshare.com>

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
Aspiration hazard, Category 1	H304
Short-term (acute) aquatic hazard, Category 1	H400
Long-term (chronic) aquatic hazard, Category 1	H410

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



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Signal word	:	Danger	
Hazard statements	:	H304 H315 H317 H319 H410	May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention : P280 Response: P301 + P310 P302 + P352 P305 + P351 + P338 P331 P333 + P313	Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. Do NOT induce vomiting. If skin irritation or rash occurs: Get medical advice/ attention.
Contains	:	CYCLOHEXENE, 1-METHYL-4-(1-METHYLETHENYL)-, (R)-, 6,6-DIMETHYL-2-METHYLENE-BICYCLO(3.1.1)HEPTANE, CITRAL, alpha-Hexyl cinnamic aldehyde.	

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No data available

3.2 Mixtures

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
(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	24
1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran ²⁾	1222-05-5 214-946-9 01-2119488227-29 01-2119488227-29	Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	17
Citral	5392-40-5 226-394-6 01-2119462829-23 01-2119462829-23	Skin Irrit.: 2; H315 Skin Sens.: 1; H317 Eye Irrit.: 2; H319	16

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Benzyl benzoate ¹⁾	120-51-4 204-402-9	Acute Tox.: 4 (Oral); H302 Aquatic Acute: 1; H400 Aquatic Chronic: 2; H411	8
α-Hexylcinnamaldehyde ²⁾	165184-98-5 101-86-0 202-983-3	Skin Sens.: 1; H317 Aquatic Acute: 1; H400 Aquatic Chronic: 2; H411	9
Nerol	106-25-2 203-378-7	Skin Sens.: 1B; H317 Skin Irrit.: 2; H315 Eye Irrit.: 2; H319	4
Geraniol	106-24-1 203-377-1	Skin Irrit.: 2; H315 Eye Dam.: 1; H318 Skin Sens.: 1B; H317	3
Linalool	78-70-6 201-134-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	4
Pin-2(10)-ene	127-91-3 204-872-5	Flam. Liq.: 3; H226 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Asp. Tox.: 1; H304 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	2
Citronellol	106-22-9 203-375-0 01-2119453995-23 01-2119453995-23	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	4
p-Cymene	99-87-6 202-796-7	Flam. Liq.: 3; H226 Asp. Tox.: 1; H304 Aquatic Chronic: 2; H411 Repr.: 2; H361	3
Linalyl acetate	115-95-7 204-116-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	3
7-Methyl-3-methyleneocta-1,6-diene ¹⁾	123-35-3 204-622-5	Flam. Liq.: 3; H226 Skin Irrit.: 2; H315 Asp. Tox.: 1; H304 Eye Irrit.: 2; H319 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410 M-Factor: 1	0.3
2,6-di-tert-Butyl-p-cresol ¹⁾	128-37-0 204-881-4 01-2119555270-46 01-2119565113-46 01-2119480433-40 01-2119565113-46	Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410 M-Factor: 1	0.6
Pin-2(3)-ene	80-56-8 201-291-9	Flam. Liq.: 3; H226 Acute Tox.: 4 (Oral); H302 Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Asp. Tox.: 1; H304 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410 M-Factor: 1	0.4
p-Mentha-1,4-diene	99-85-4 202-794-6	Flam. Liq.: 3; H226 Repr.: 2; H361 Aquatic Chronic: 2; H411	0.7

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Undecan-4-olide	104-67-6 203-225-4 01-2119959333-34 01-2119959333-34 01-2119959333-34 01-2119959333-34	Aquatic Chronic: 3; H412	0.4
Citronellyl formate	105-85-1 203-338-9	Skin Irrit.: 2; H315 Skin Sens.: 1B; H317	0.6

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

Short-term (acute) aquatic hazard:

¹⁾ 0,1 < L(E)C50 <= 1 mg/l

²⁾ 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 symptoms persist, call a physician.
Wash off immediately with soap and plenty of water.
- Eye contact : Protect unharmed eye.
Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
- Ingestion : 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.
If accidentally swallowed obtain immediate medical attention.

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.
Do not allow run-off from fire fighting to enter drains or water courses.

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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.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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 : Should not be released into the environment.
Avoid subsoil penetration.
Prevent further leakage or spillage if safe to do so.
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).
Dam up.
Wipe up with absorbent material (e.g. cloth, fleece).
- Additional advice : 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 : Dispose of rinse water in accordance with local and national regulations.
Avoid contact with skin and eyes.
For personal protection see section 8.
- Advice on protection against fire and explosion : When using do not smoke.

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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.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 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 mix

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
2,6-di-tert-Butyl-p-cresol	128-37-0	AGW 10 mg/m3	09 2012	TRGS 900
Oxydipropanol	25265-71-8	AGW 100 mg/m3	09 2012	TRGS 900
Benzyl alcohol	100-51-6	AGW 5 ppm	11 2017	TRGS 900

Components with workplace control parameters , United Kingdom :

Components	CAS-No.	Control parameters	Update	Basis
2,6-di-tert-Butyl-p-cresol	128-37-0	TWA 10 mg/m3	12 2011	EH40 WEL

Components with workplace control parameters , Spain :

Components	CAS-No.	Control parameters	Update	Basis
(R)-p-Mentha-1,8-diene	5989-27-5	TWA 30 ppm	2018	VLA (ES)
Citral	5392-40-5	VLA-ED 5 ppm	2013	VLA (ES)
Pin-2(10)-ene	127-91-3	VLA-ED 20 ppm	2012	VLA (ES)
Benzyl acetate	140-11-4	VLA-ED 10 ppm	2012	VLA (ES)
2,6-di-tert-Butyl-p-cresol	128-37-0	TWA 10 mg/m3	2014	VLA (ES)
Pin-2(3)-ene	80-56-8	VLA-ED 20 ppm	2012	VLA (ES)

Components with workplace control parameters , France :

Components	CAS-No.	Control parameters	Update	Basis
2,6-di-tert-Butyl-p-cresol	128-37-0	VME 10 mg/m3	07 2012	INRS (FR)

Components with workplace control parameters , Austria :

Components	CAS-No.	Control parameters	Update	Basis
2,6-di-tert-Butyl-p-cresol	128-37-0	MAK 10 mg/m3	12 2011	MAK (AT)

Components with workplace control parameters , Poland :

Components	CAS-No.	Control parameters	Update	Basis
Citral	5392-40-5	NDSch 54 mg/m3	12 2011	POL MAC

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		NDS 27 mg/m3	12 2011	POL MAC
Benzyl alcohol	100-51-6	NDS 240 mg/m3	12 2011	POL MAC

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

- Form : clear liquid
- Colour : colorless to yellow
- Odour : characteristic
- Odour Threshold : No data available

Safety data

- Flash point : 66 °C
- Water solubility : immiscible
- Relative density : 0,9207 - 0,9407 at
20 °C relation to density of water at 4°C
- Bulk density :
- Relative vapour density : not determined
- Vapour pressure : 2 kPa at 50 °C
calculated
- Melting point/freezing point :
not determined

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Boiling point	:	not determined
Partition coefficient: n-octanol/water	:	log Pow: Not applicable
pH	:	Not applicable
Evaporation rate	:	Not applicable
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.

9.2 Other data

None.

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	:	Acute toxicity estimate : > 2.000 mg/kg, Calculation method
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

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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

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

Very toxic to aquatic life with long lasting effects.

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

ADR : 3082
 RID : 3082
 IMDG : 3082
 IATA-DGR : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)
 RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE)
 IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIMONENE,HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN) MP
 IATA-DGR : Environmentally hazardous substance, liquid, n.o.s. (LIMONENE)

14.3 Transport hazard class

ADR : 9
 RID : 9
 IMDG : 9
 IATA-DGR : 9

14.4 Packing group

ADR:
 Packaging group : III
 Classification Code : M6
 Hazard Identification Number : 90
 Labels : 9
 Tunnel restriction code : (-)

RID:
 Packaging group : III
 Classification Code : M6
 Hazard Identification Number : 90
 Labels : 9

IMDG:
 Packaging group : III
 Labels : 9
 EmS - EmS : F-A, S-F

IATA-DGR:
 Packing instruction (cargo aircraft) : 964
 Qty/Pkg (Cargo) : 450,00 L
 Packing instruction (passenger aircraft) : 964
 Qty/Pkg (Passenger) : 450,00 L
 Packaging group : III
 Labels : 9

14.5 Environmental hazards

ADR:
 Environmentally hazardous : yes

RID:
 Environmentally hazardous : yes

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IMDG:
 Marine pollutant : yes

IATA-DGR:
 Environmentally hazardous : yes

14.6 Special precautions for user

No data available

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

Not applicable

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 3 (highly hazardous to water)
 Calculation acc. Annex 4 to VwVwS

TA Luft List (Germany) : Type: Organic Substances
 portion Class 1: 0,02 %

15.2 Chemical safety assessment

No data available

SECTION 16: OTHER INFORMATION

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

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- 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.
- H361 Suspected of damaging fertility or the unborn child.
- 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.

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.

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