

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

Product: Lotus
Product No: FS2007929

Version 5.0
2020-03-18

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

1.1 Product identifier

Commercial Product Name : Lotus
Material number : FS2007929

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

No data available

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
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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
Reproductive toxicity, Category 2	H361
Short-term (acute) aquatic hazard, Category 1	H400
Long-term (chronic) aquatic hazard, Category 2	H411

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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Hazard statements	:	H315 H317 H319 H361 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention : P280 Response: P302 + P352 P305 + P351 + P338 P308 + P313 P333 + P313 P337 + P313	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 exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention.
Contains	:	2-(4-TERT-BUTYLBENZYL)PROPIONALDEHYDE, CYCLOHEXENE, 1-METHYL-4-(1-METHYLETHENYL)-, (R)-, alpha-Hexyl cinnamic aldehyde, 2-HYDROXYBENZOIC ACID HEXYLESTER.	

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 [%]
2-Phenylethanol ¹⁾	60-12-8 200-456-2	Eye Irrit.: 2; H319 Acute Tox.: 4 (Oral); H302	9
1,4-Dioxacycloheptadecane-5,17-dione	105-95-3 203-347-8	not hazardous	9.8
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
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	8

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Hexyl salicylate ¹⁾	6259-76-3 228-408-6 01-2119638275-36-0007 01-2119638275-36-0011	Skin Sens.: 1; H317 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	7.8
Linalool	78-70-6 201-134-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	4.3
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	4.9
2-(4-tert-Butylbenzyl)propionaldehyde	80-54-6 201-289-8	Repr.: 2; H361 Skin Irrit.: 2; H315 Acute Tox.: 4 (Oral); H302 Aquatic Chronic: 3; H412 Skin Sens.: 1B; H317	4.5
(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	4.5
2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol	106185-75-5 28219-61-6 248-908-8 01-2119529224-45	Eye Irrit.: 2; H319 Aquatic Chronic: 2; H411	4.8
Oxacyclohexadecen-2-one ¹⁾	34902-57-3 111879-80-2 422-320-3	Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	4.8
Geranyl acetate	105-87-3 203-341-5	Skin Irrit.: 2; H315 Aquatic Chronic: 3; H412 Skin Sens.: 1; H317	3.7
1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one ¹⁾	1506-02-1 21145-77-7 216-133-4 244-240-6 01-2119539433-40 01-2119539433-40	Acute Tox.: 4 (Oral); H302 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410 M-Factor: 1	3.8
Neryl acetate	141-12-8 205-459-2	Skin Sens.: 1B; H317	4.2
Citronellyl acetate	150-84-5 205-775-0 01-2119959860-27	Skin Irrit.: 2; H315 Aquatic Chronic: 2; H411	4.2
Linalyl acetate	115-95-7 204-116-4	Skin Irrit.: 2; H315 Eye Irrit.: 2; H319 Skin Sens.: 1B; H317	3.7
α-Methyl-1,3-benzodioxole-5-propionaldehyde	1205-17-0 214-881-6	Skin Sens.: 1B; H317 Aquatic Chronic: 2; H411 Repr.: 2; H361	0.89
Geraniol	106-24-1 203-377-1	Skin Irrit.: 2; H315 Eye Dam.: 1; H318 Skin Sens.: 1B; H317	0.88
p-Mentha-1,4-diene	99-85-4 202-794-6	Flam. Liq.: 3; H226 Repr.: 2; H361 Aquatic Chronic: 2; H411	0.8

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(Z)-3-Hexenyl salicylate ¹⁾	65405-77-8 265-745-8 01-2119987320-37-0001 01-2119987320-37-0009	Aquatic Acute: 1; H400	0.63
Methyl 2,4-dihydroxy-3,6-dimethylbenzoate	4707-47-5 225-193-0 01-2120762759-36 01-2120762759-36	Skin Sens.: 1B; H317	0.75
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	0.74
Oxacycloheptadec-10-en-2-one	28645-51-4 249-120-7 01-2120103324-74 01-2120103324-74 01-2120103324-74	Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410 M-Factor: 10	0.74
Pentadecan-15-olide ¹⁾	106-02-5 203-354-6	Skin Sens.: 1B; H317 Aquatic Chronic: 2; H411	0.88
Hexyl acetate	142-92-7 205-572-7	Flam. Liq.: 3; H226	0.83
(Ethoxymethoxy)cyclodecane	58567-11-6 261-332-1 01-2119971571-34-0000 01-2119971571-34-0002	Skin Irrit.: 2; H315 Aquatic Chronic: 2; H411 Skin Sens.: 1; H317	0.83
3-(p-Ethylphenyl)-2,2-dimethylpropionaldehyde	67634-15-5 266-819-2	Skin Irrit.: 2; H315 Skin Sens.: 1B; H317 Aquatic Acute: 1; H400 Aquatic Chronic: 2; H411	0.99
1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one ¹⁾	57378-68-4 260-709-8	Acute Tox.: 4 (Oral); H302 Skin Sens.: 1A; H317 Skin Irrit.: 2; H315 Aquatic Acute: 1; H400 Aquatic Chronic: 1; H410	0.02
(E)-1-(2,6,6-Trimethyl-1,3-cyclohexadien-1-yl)-2-buten-1-one	23726-93-4 23696-85-7 245-844-2 245-833-2	Skin Irrit.: 2; H315 Skin Sens.: 1A; H317 Aquatic Chronic: 2; H411	0.02

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 skin irritation persists, call a physician.
Wash off immediately with plenty of water for at least 15 minutes.

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

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.

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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.
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.
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)

No data available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters , Germany :

Components	CAS-No.	Control parameters	Update	Basis
Oxydipropanol	25265-71-8	AGW 100 mg/m3	09 2012	TRGS 900
(R)-p-Mentha-1,8-diene	5989-27-5	AGW 5 ppm	04 2013	TRGS 900
2,2',2''-Nitrilotriethanol	102-71-6	AGW 1 mg/m3	06 2018	TRGS 900

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)
2,2',2''-Nitrilotriethanol	102-71-6	TWA 5 mg/m3	2012	VLA (ES)
Pin-2(10)-ene	127-91-3	VLA-ED 20 ppm	2012	VLA (ES)

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

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Odour Threshold : No data available

Safety data

Flash point : 87 °C

Water solubility : immiscible

Bulk density :

Relative vapour density : not determined

Vapour pressure : < 1 kPa at 50 °C
calculatedMelting 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.

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

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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

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

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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. ((2E)-2-Benzylideneoctanal)
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2E)-2-Benzylideneoctanal)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((2E)-2-Benzylideneoctanal, HEXAHYDROHEXAMETHYL CYCLOPENTABENZOPYRAN) MP
IATA-DGR : Environmentally hazardous substance, liquid, n.o.s. ((2E)-2-Benzylideneoctanal)

14.3 Transport hazard class

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

14.4 Packing group

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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

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

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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.