

Firmenich

Safety Data Sheet

According to Regulation (EC) No 1907/2006 (as amended)

This Safety Data Sheet cancels and replaces all preceding SDS for this product.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

191340 D
LAVENDER BOUQUET
© Firmenich product

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

Not for personal use in this form or concentration.
Intended to be used in the manufacture of products for consumers.

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

Tel:+41.22.780.37.90
Available 24/7 (NCEC)

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) N° 1272/2008 [CLP/GHS]

Aspiration Hazard - Cat. 1	H304
Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1B	H317
Eye Irritation - Cat.2	H319
Environmental Hazard (chronic) - Cat. 2	H411

2.1.2 Classification according to 67/548/EEC or 1999/45/EC as amended

Symbols:

Xn	Harmful
N	Dangerous for the environment

Risks Phrases:

R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.

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2.1.3 Additional information

Full text of listed statements : See section 16

2.2 Label elements

Hazard pictograms:



Signal Word:

Danger

Hazard Statements:

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Supplemental Hazard information (EU):

Contains: Coumarin, Geraniol, Formyl-Dimethylcyclohexene, Limonene, Acetyltetramethyloctaline, Citronellol, Benzyl Salicylate, Pinene, Beta-Pinene, Alpha-. May produce an allergic reaction.

Hazard Inducers:

1,6-Octadien-3-ol, 3,7-dimethyl-, acetate
1,6-Octadien-3-ol, 3,7-dimethyl-
Benzeneethanol
6-Octen-1-ol, 3,7-dimethyl-
2,6-Octadien-1-ol, 3,7-dimethyl-, (E)-

2.3 Other hazards

No data available at this time.

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3 COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of aromatic substances.

Contains :

7.5 - 10.0%	2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl- N° CAS : 0000470-82-6 / N° EINECS: 207-431-5 Classification: - R10 GHS Classification: Flammable Liquid - Cat. 3 [H226]
7.5 - 10.0%	Cyclohexanol, 4-(1,1-Dimethylethyl)-, Acetate N° CAS : 0032210-23-4 / N° EINECS: 250-954-9 Classification: N - R51/53 GHS Classification: Environmental Hazard (chronic) - Cat. 2 [H411]
7.5 - 10.0%	1,6-Octadien-3-ol, 3,7-Dimethyl-, Acetate N° CAS : 0000115-95-7 / N° EINECS: 204-116-4 Classification: Xi - R38 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315] Flammable Liquid - Cat. 4 [H227]
5.0 - 7.5%	1,6-Octadien-3-ol, 3,7-Dimethyl- N° CAS : 0000078-70-6 / N° EINECS: 201-134-4 Classification: Xi - R38 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315] Flammable Liquid - Cat. 4 [H227]
5.0 - 7.5%	Benzeneethanol N° CAS : 0000060-12-8 / N° EINECS: 200-456-2 Classification: Xi - R36 GHS Classification: Eye Irritation - Cat.2 [H319]
5.0 - 7.5%	6-Octen-1-ol, 3,7-Dimethyl- N° CAS : 0000106-22-9 / N° EINECS: 203-375-0 Classification: Xi N - R38,R43,R51/53 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1 [H317]

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2.5 - 5.0%	3-Octanol, 3,7-Dimethyl- N° CAS : 0000078-69-3 / N° EINECS: 201-133-9 Classification: Xi N - R38,R51/53 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315] Flammable Liquid - Cat. 4 [H227]
2.5 - 5.0%	Bicyclo[2.2.1]Heptan-2-One, 1,7,7-Trimethyl- N° CAS : 0000076-22-2 / N° EINECS: 200-945-0 Classification: F Xn - R20,R68/22,R11 GHS Classification: Acute Toxicity (inhalation) - Cat. 4 [H332] Specific Target Organ Toxicity - Single Exposure - Cat. 2 [H371] Flammable Liquid - Cat. 4 [H227]
2.5 - 5.0%	Propanedioic Acid, Diethyl Ester N° CAS : 0000105-53-3 / N° EINECS: 203-305-9 Classification: Xi - R36 GHS Classification: Eye Irritation - Cat.2 [H319]
2.5 - 5.0%	1-Octen-3-ol, 3,7-Dimethyl- N° CAS : 0018479-49-7 / N° EINECS: 242-358-2 Classification: Xn - R36,R20,R52/53 GHS Classification: Acute Toxicity (inhalation) - Cat. 4 [H332] Eye Irritation - Cat.2 [H319]
2.5 - 5.0%	Acetic Acid, Hexyl Ester N° CAS : 0000142-92-7 / N° EINECS: 205-572-7 Classification: N - R10,R51/53 GHS Classification: Flammable Liquid - Cat. 3 [H226] Environmental Hazard (chronic) - Cat. 2 [H411]
1.0 - 2.5%	2,6-Octadien-1-ol, 3,7-Dimethyl-, (E)- N° CAS : 0000106-24-1 / N° EINECS: 203-377-1 Classification: Xi - R43,R38,R41 GHS Classification: Eye Damage - Cat.1 [H318] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1B [H317]
1.0 - 2.5%	Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)- N° CAS : 0054464-57-2 / N° EINECS: 259-174-3 Classification: Xi N - R51/53,R38,R43 GHS Classification: Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1 [H317] Environmental Hazard (chronic) - Cat. 2 [H411]

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1.0 - 2.5%	<p>Terpineol N° CAS : 0008000-41-7 / N° EINECS: 232-268-1 Classification: Xi - R38,R36 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315]</p>
1.0 - 2.5%	<p>Limonene N° CAS : 0000138-86-3 / N° EINECS: 205-341-0 Classification: Xn N - R38,R43,R50/53,R65,R10 GHS Classification: Aspiration Hazard - Cat. 1 [H304] Flammable Liquid - Cat. 3 [H226] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1 [H317] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 1 [H410]</p>
1.0 - 2.5%	<p>Bicyclo[3.1.1]Hept-2-Ene, 2,6,6-Trimethyl- N° CAS : 0000080-56-8 / N° EINECS: 201-291-9 Classification: Xn - R43,R65,R10,R38 GHS Classification: Flammable Liquid - Cat. 3 [H226] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1 [H317]</p>
1.0 - 2.5%	<p>4,7-Methano-1h-Inden-6-ol, 3a,4,5,6,7,7a-Hexahydro-, Acetate N° CAS : 0005413-60-5 / N° EINECS: 226-501-6 Classification: - R52/53 GHS Classification: Environmental Hazard (chronic) - Cat. 3 [H412]</p>
0.5 - 1.0%	<p>Benzoic Acid, 2-Hydroxy-, Phenylmethyl Ester N° CAS : 0000118-58-1 / N° EINECS: 204-262-9 Classification: Xi N - R43,R51/53 GHS Classification: Skin Sensitization - Cat. 1B [H317] Environmental Hazard (chronic) - Cat. 2 [H411]</p>
0.5 - 1.0%	<p>Bicyclo[2.2.1]Heptan-2-ol, 1,7,7-Trimethyl-, Exo- N° CAS : 0000124-76-5 / N° EINECS: 204-712-4 Classification: F - R11 GHS Classification: Flammable Liquid - Cat. 4 [H227]</p>

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0.5 - 1.0%	<p>Bicyclo[3.1.1]Heptane, 6,6-Dimethyl-2-Methylene- N° CAS : 0000127-91-3 / N° EINECS: 204-872-5 Classification: Xn - R43,R65,R10,R38 GHS Classification: Flammable Liquid - Cat. 3 [H226] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1 [H317]</p>
0.5 - 1.0%	<p>2h-1-Benzopyran-2-One N° CAS : 0000091-64-5 / N° EINECS: 202-086-7 Classification: Xn - R22,R43 GHS Classification: Acute Toxicity (oral) - Cat. 4 [H302] Skin Sensitization - Cat. 1 [H317] Specific Target Organ Toxicity - Repeated Exposure - Cat. 2 [H373]</p>
0.1 - 0.5%	<p>Pentanoic Acid, 2-Methyl-, Ethyl Ester N° CAS : 0039255-32-8 / N° EINECS: 254-384-1 Classification: - R10 GHS Classification: Flammable Liquid - Cat. 3 [H226]</p>
0.1 - 0.5%	<p>3-Cyclohexene-1-Carboxaldehyde, 2,4-Dimethyl- N° CAS : 0068039-49-6 / N° EINECS: 268-264-1 Classification: Xi - R36/38,R43,R52/53 GHS Classification: Eye Irritation - Cat.2 [H319] Skin Irritation - Cat. 2 [H315] Skin Sensitization - Cat. 1B [H317] Environmental Hazard (chronic) - Cat. 3 [H412]</p>
0.1 - 0.5%	<p>3-Cyclohexene-1-Carboxaldehyde, 2,4(Or 3,5)-Dimethyl- N° CAS : 0068737-61-1 / N° EINECS: 272-113-5 Classification: - Not Classified GHS Classification: Flammable Liquid - Cat. 4 [H227]</p>
0.1 - 0.5%	<p>4-Penten-2-ol, 3,3-Dimethyl-5-(2,2,3-Trimethyl-3-Cyclopenten-1-yl)- N° CAS : 0107898-54-4 / N° ELINCS: 411-580-3 Classification: Xi N - R38,R50/53 GHS Classification: Skin Irritation - Cat. 2 [H315] Environmental Hazard (acute) - Cat. 1 [H400] Environmental Hazard (chronic) - Cat. 1 [H410]</p>
0.1 - 0.5%	<p>1,3,6-Octatriene, 3,7-Dimethyl- N° CAS : 0013877-91-3 / N° EINECS: 237-641-2 Classification: - R10 GHS Classification: Flammable Liquid - Cat. 3 [H226]</p>

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- 0.1 - 0.5% 1,6-Octadiene, 7-Methyl-3-Methylene-
N° CAS : 0000123-35-3 / N° EINECS: 204-622-5
Classification: Xn - R65,R10,R38
GHS Classification:
Eye Irritation - Cat.2 [H319]
Flammable Liquid - Cat. 3 [H226]
Skin Irritation - Cat. 2 [H315]
- 0.1 - 0.5% 2,6-Octadien-1-ol, 3,7-Dimethyl-, Acetate, (E)-
N° CAS : 0000105-87-3 / N° EINECS: 203-341-5
Classification: N - R51/53
GHS Classification:
Environmental Hazard (chronic) - Cat. 2 [H411]

4 FIRST-AID MEASURES

4.1 Description of first aid measures

General information:

As in all cases of potential poisoning, Obtain medical advice immediately.

In case of eye contact:

Irrigate copiously with water for at least 10 minutes. Obtain medical advice if any irritation or evidence of tissue damage persists.

In case of inhalation:

Remove the individual to fresh air and keep at rest. Obtain medical advice immediately.

In case of skin contact:

Remove contaminated clothes. Wash skin with large volumes of water.

If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately.

In case of ingestion:

Rinse mouth with water. Obtain medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available on the product itself.

4.3 Indication of immediate medical attention and special treatment needed

None known.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment.

5.2 Special hazard arising from the substance or mixture

No specific hazard known.

5.3 Advice for fire-fighters

No specific advice.

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6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Adequate protective gloves should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment).

Avoid skin contamination and inhalation of vapour.

Individual washing routines should be followed after any potential contact.

Ensure adequate ventilation in working areas following accidental releases.

For emergency personnel:

Apply the same recommendations as section 6.1

6.2 Environmental precautions

Do not discharge directly into drains, air, into soil or into the aquatic environment.

6.3 Methods and material for containment and cleaning up

For containment:

Any absorbent used for cleaning up spillage should be disposed promptly, accordingly to local regulation.

Gross spillages should be contained by any means, and disposal of this should be in accordance with Government Regulations.

For cleaning-up:

Spillages should be disposed of in accordance with Governmental Regulations.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes.

Wear adequate protective gloves protection and eye/face protection.

No smoking. Avoid any sources of ignition.

Avoid exposing to high temperature during processing.

Do not ingest or apply to the skin as such. Good personal washing routines should be followed.

Maintain adequate local and general ventilation where product is handled.

7.1.1 Protective measures

Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled. Avoid any sources of ignition.

7.1.2 Advice on general occupational hygiene

Good personal washing routines should be followed.

7.2 Conditions for safe storage, including any incompatibilities

It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container.

Respect general rules for compatibility storage.

7.3 Specific end use(s)

Not available at this time.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

0000076-22-2 : camphre (Toutes formes)

Valeurs limites d'exposition professionnelle aux agents chimiques (1996-DEC)

VME (1996-DEC) : 2 ppm , 8 Heures (Toutes formes)

VME (1996-DEC) : 12 mg/m³ , 8 Heures (Toutes formes)

8.2 Exposure controls

Avoid exposing to high temperature during processing.

Maintain adequate local and general ventilation where product is handled.

8.2.1 Appropriate engineering controls

Maintain adequate local and general ventilation where product is handled and dispensed.

8.2.2 Environmental exposure controls

Not available at this time. Minimize release to the environment.

8.3 Personal protection

Respiratory protection: Where ventilation (LEV) is inadequate to prevent any inhalation of substances, use adequate respiratory apparatus.

Hand protection: Adequate Protective Gloves should be worn.

Eye protection: Adequate safety glasses should be used.

Skin protection: Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance :	LIQUID
Colour :	COLOURLESS TO PALE GREEN
Odour :	Characteristic strong odour according to the commercial description of the substance.
pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range (°C) :	Not available
Flash point (closed cup) :	= 64°C
Evaporation rate :	Not available
Flammability (solid/gas) :	Not available
Upper/lower flammability or explosive limits :	Not available
Vapour pressure (Pa) :	Not applicable
Vapour density :	Not available
Relative density (d 20/20) :	0.916 - 0.926
Water solubility (20°C) :	Not applicable
Partition coef. (n-octanol/water) :	Not applicable

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Auto-ignition temperature (°C) :	Not available
Decomposition temperature :	Not available
Viscosity :	Not available
Explosive properties :	Not available
Oxidizing properties :	Not available

10 STABILITY AND REACTIVITY

10.1 Reactivity

No reaction known with water.

10.2 Chemical stability

Good stability at standard temperature.

10.3 Possibility of hazardous reactions

Not known.

10.4 Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids.
Do not heat closed containers.
Avoid contact with oxidizing agents.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

11 TOXICOLOGICAL INFORMATION

This mixture has not been subjected to toxicological testing as an entity. According to available data on the constituents the health classification criteria are met.

12 ECOLOGICAL INFORMATION

This mixture has not been subjected to ecotoxicological testing as an entity. According to available data on the constituents the environmental classification criteria are met.

13 DISPOSAL CONSIDERATIONS

Residual quantities of the product should be treated according to the instructions given under points 6, 7 and 8 above. Wastes should be eliminated according to national or regional regulatory requirements currently in force.
Minimize release to the environment.

14 TRANSPORT INFORMATION

In case of accidental spillage or fire during transport, refer to instructions given under points 5, 6, 7 and 8 above.

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14.1 UNO

UN-No: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LIMONENE)
Class: 9
Packing Group: III
Hazardous to the Environment

14.2 Land transport (ADR/RID)

UN-No: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LIMONENE)
Class: 9
Packing group: III

14.3 Sea transport (IMDG-Code)

UN-No: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LIMONENE)
Class: 9
Packing group: III
Marine pollutant

14.4 Air transport (ICAO-IATA)

UN-No: 3082
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LIMONENE)
Class: 9
Packing group: III

15 REGULATORY INFORMATION

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

EU Regulations

No relevant information available at this time.

15.2 Chemical Safety Assessment

No data available at this time.

16 OTHER INFORMATION

16.1 Revisions

01-Dec-2010: Version 6.1 - First version validated for publication

01-Mar-2012: Version 6.2 - Updates to sections 1, 2, 3, 8.3, 11, 12, 16.

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16.2 Key literature references

RIFM database
OECD SIDS
EU IUCLID
Supplier information

16.3 Full text of phrases used under section 2

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37	Wear suitable gloves.
S57	Use appropriate container to avoid environmental contamination.
S61	Avoid release to the environment. Refer to special instructions/Safety data sheets.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P337	If eye irritation persists:

16.4 Full text of phrases used under section 3

H411	Toxic to aquatic life with long lasting effects.
H227	Combustible liquid
H400	Very toxic to aquatic life.
H317	May cause an allergic skin reaction.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
H371	May cause damage to organs.

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H318	Causes serious eye damage.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H226	Flammable liquid and vapour.
H410	Very toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R68/22	Harmful: possible risk of irreversible effects if swallowed.

We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use of the product are not within the control of Firmenich, it is the user's obligation to determine conditions of safe use of the product.

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