

**CHEMICAL SAFETY DATA SHEET**  
according to 1907/2006/EC Article 31, as amended by N°  
453/2010

2581900

Reviewed on: 14/01/20  
Printing date: 14/01/2020

**SECTION 01: Identification of the substance/mixture and of the company/undertaking**

1.1 Product identifier

- Trade name:  
CINNAMON ORANGE BLEND ORGANIC
- Article number:  
CB095

1.2 Relevant identified uses of the substance or mixture and uses advised against  
Application of the substance / the preparation  
Only for industrial use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:  
GOLGEMMA TEL: +33(0)4.68.74.17.89  
Route de FA email: fds@golgemma.com  
11260 ESPERAZA  
FRANCE

1.4 Emergency telephone number:  
FR-ORFILA (INRS):+33(0)1 45 42 59 59

**SECTION 02: Hazards identification**

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008



GHS08

Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways.



GHS02

Flam. Liq. 3 - H226 Flammable liquid and vapour.



GHS07

Skin Irrit. 2 - H315 Causes skin irritation.  
Skin Sens. 1 - H317 May cause an allergic skin reaction.



GHS09

Aquatic Chronic 1 - H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms



GHS08



GHS02



GHS07



GHS09

- Signal word  
Danger

- Hazard-determining components of labelling:  
(R)-p-mentha-1,8-diene / cinnamaldehyde / pin-2(3)-ene / Linalool /  
beta-Caryophyllene / beta-Pinene
- Hazard statements  
H304 May be fatal if swallowed and enters airways.  
H226 Flammable liquid and vapour.

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- H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
  - P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
  - P233 Keep container tightly closed.
  - P240 Ground and bond container and receiving equipment.
  - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
  - P403+P235 Store in a well-ventilated place. Keep cool.
  - P501 Dispose of contents/container in accordance with local/regional/ national/international regulations.

2.3 Other hazards

- Results of PBT and vPvB assessment
- PBT:  
Not applicable.
- vPvB:  
Not applicable.

**SECTION 03: Composition/information on ingredients**

3.2 Chemical characterization: Mixtures

- Description:  
Mixture

- Dangerous components:

CAS Number		%
<b>5989-27-5</b>	<b>d-limonene</b> EC number: 227-813-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; ⚠ Aquatic Acute 1 - H400; Aquatic Chronic 3 - H412	<b>50,001-100</b>
<b>123-35-3</b>	<b>Myrcene</b> EC number: 204-622-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319	<b>1,001- 5,00</b>
<b>104-55-2</b>	<b>cinnamaldehyde</b> EC number: 203-213-9 ⚠ Acute Tox. 4 - H312, Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1A - H317	<b>1,001- 5,00</b>
<b>112-31-2</b>	<b>decanal</b> EC number: 203-957-4 ⚠ Eye Irrit. 2 - H319; Aquatic Chronic 3 - H412	<b>1,001- 5,00</b>
<b>80-56-8</b>	<b>pin-2(3)-ene</b> EC number: 201-291-9 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Acute Tox. 4 - H302, Skin Irrit. 2 - H315, Skin Sens. 1B - H317	<b>1,001- 5,00</b>
<b>3387-41-5</b>	<b>sabinene</b> EC number: 222-212-4 ⚠ Acute Tox. 4 - H302	<b>1,001- 5,00</b>

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<b>78-70-6</b>	<b>Linalool</b> EC number: 201-134-4 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>1,001- 5,00</b>
<b>124-13-0</b>	<b>octanal</b> EC number: 204-683-8 ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319; ⚠ Aquatic Chronic 2 - H411	<b>0,101-1,00</b>
<b>87-44-5</b>	<b>beta-Caryophyllene</b> EC number: 201-746-1 ⚠ Asp. Tox. 1 - H304; ⚠ Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>127-91-3</b>	<b>beta-Pinene</b> EC number: 204-872-5 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>13466-78-9</b>	<b>delta-3-Carene</b> EC number: 236-719-3 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3 - H226; ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>105-87-3</b>	<b>Geranyl acetate</b> EC number: 203-341-5 ⚠ Skin Irrit. 2 - H315, Skin Sens. 1B - H317; Aquatic Chronic 3 - H412	<b>0,101-1,00</b>
<b>5392-40-5</b>	<b>Citral</b> EC number: 226-394-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>106-23-0</b>	<b>Citronellal</b> EC number: 203-376-6 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>106-25-2</b>	<b>Nerol</b> EC number: 203-378-7 ⚠ Skin Irrit. 2 - H315, Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>97-53-0</b>	<b>Eugenol</b> EC number: 202-589-1 ⚠ Eye Irrit. 2 - H319, Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>99-87-6</b>	<b>p-cymene</b> EC number: 202-796-7 ⚠ Asp. Tox. 1 - H304; ⚠ Flam. Liq. 3	<b>0,101-1,00</b>

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<b>586-62-9</b>	- H226;  Aquatic Chronic 2 - H411 <b>Terpinolene</b> EC number: 209-578-0 Asp. Tox. 1 - H304;  Skin Sens. 1B - H317;  Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	<b>0,101-1,00</b>
<b>99-86-5</b>	<b>p-mentha-1,3-diene</b> EC number: 202-795-1 Asp. Tox. 1 - H304;  Flam. Liq. 3 - H226;  Acute Tox. 4 - H302;  Aquatic Chronic 2 - H411	<b>0,101-1,00</b>
<b>79-92-5</b>	<b>camphene</b> EC number: 201-234-8 Flam. Sol. 1 - H228;  Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	<b>0,101-1,00</b>
<b>470-82-6</b>	<b>Eucalyptol</b> EC number: 207-431-5 Flam. Liq. 3 - H226;  Skin Sens. 1B - H317	<b>0,101-1,00</b>
<b>104-54-1</b>	<b>Cinnamyl alcohol</b> EC number: 203-212-3 Skin Sens. 1B - H317	<b>0,01-0,100</b>
<b>120-51-4</b>	<b>Benzyl benzoate</b> EC number: 204-402-9 Acute Tox. 4 - H302;  Aquatic Acute 1 - H400, Aquatic Chronic 2 - H411	<b>0,01-0,100</b>

**SECTION 04: First aid measures**

4.1 Description of first aid measures

- General information:  
Seek immediate medical advice.
- After inhalation:  
Supply fresh air and to be sure call for a doctor.
- After skin contact:  
If skin irritation continues, consult a doctor.  
Immediately wash with water and soap and rinse thoroughly.
- After eye contact:  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:  
Seek immediate medical advice.
- Information for doctor:

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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**SECTION 05: Firefighting measures**

5.1 Extinguishing media

- Suitable extinguishing agents:  
CO2, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.
- For safety reasons unsuitable extinguishing agents:  
Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

- Protective equipment:  
Do not inhale explosion gases or combustion gases.
- Additional information  
Cool endangered receptacles with water spray.

**SECTION 06: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 07: Handling and storage**

• Handling:

7.1 Precautions for safe handling

Keep receptacles tightly sealed.  
Keep away from heat and direct sunlight.  
Ensure good ventilation/exhaustion at the workplace.  
Handle with care. Avoid jolting, friction and impact.

• Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

- Storage:
- Requirements to be met by storerooms and receptacles:  
Store only in the original receptacle.  
Prevent any seepage into the ground.  
Use only receptacles specifically permitted for this substance/ product.
- Further information about storage conditions:  
Keep container tightly sealed.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.

7.3 Specific end use(s)

No further relevant information available.

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**SECTION 08: Exposure controls/personal protection**

**8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<b>CAS No.</b>	<b>Designation of material</b>	<b>%</b>	<b>Type</b>	<b>Value Unit</b>
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The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:**  
The lists valid during the making were used as basis.

**8.2 Exposure controls**

- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.  
Avoid contact with the skin.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:** Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

**SECTION 09: Physical and chemical properties**

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

**General Information**

**Appearance:**

<b>Form:</b>	fluid
<b>Colour:</b>	orange-yellow to brown-orange
<b>Odour:</b>	mild
<b>Odour threshold:</b>	Not determined.

**Change in condition**

<b>Initial boiling point and boiling range:</b>	Not determined.
<b>Flash point:</b>	49,0 °C    NFT 60-103 CC
<b>Flammability (solid, gas):</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density:</b>	Not determined.
<b>Relative density :</b>	0,8400 0,86    D20/20

**Solubility in / Miscibility with**

<b>water:</b>	Not determined.
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<b>Partition coefficient: n-octanol/water:</b>	Not determined.
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<b>9.2 Other information</b>	No further relevant information available.
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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No further relevant information available.

**10.2 Chemical stability**

Thermal decomposition / conditions to be avoided:  
Not determined.

**10.3 Possibility of hazardous reactions**

No dangerous reactions known.

**10.4 Conditions to avoid**

No further relevant information available.

**10.5 Incompatible materials:**

No further relevant information available.

**10.6 Hazardous decomposition products:**

Not determined.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

- Acute toxicity
- LD/LC50 values relevant for classification:

**ISO LD/LC**

<b>5989-27-5</b>	<b>(R)-p-mentha-1,8-diene</b>
Oral, LD50: 4400 mg/kg (rat)	
<b>104-55-2</b>	<b>cinnamaldehyde</b>
Oral, LD50: 2220 mg/kg (rat)	
<b>112-31-2</b>	<b>decanal</b>
Oral, LD50: 3730 mg/kg (rat)	
Dermal, LD50: 5040 mg/kg (Rabbit)	
<b>78-70-6</b>	<b>Linalool</b>
Oral, LD50: 2790 mg/kg (rat)	
Dermal, LD50: 5610 mg/kg (Rabbit)	
<b>124-13-0</b>	<b>octanal</b>
Oral, LD50: 5630 mg/kg (rat)	
Dermal, LD50: 6350 mg/kg (Rabbit)	
<b>87-44-5</b>	<b>beta-Caryophyllene</b>
Oral, LD50: > 5000 mg/kg (rat) (Hart and Wong 1971)	
<b>13466-78-9</b>	<b>delta-3-Carene</b>
Oral, LD50: 4800 mg/kg (rat) (Moreno 1975)	
<b>105-87-3</b>	<b>Geranyl acetate</b>
Oral, LD50: >4000 mg/kg (rat) (NTP 1987)	
<b>5392-40-5</b>	<b>Citral</b>
Oral, LD50: 4960 mg/kg (rat)	
<b>97-53-0</b>	<b>Eugenol</b>
Oral, LD50: 1930 mg/kg (rat)	
<b>79-92-5</b>	<b>camphene</b>
Oral, LD50: 5000 mg/kg (rat)	
Dermal, LD50: 2500 mg/kg (Rabbit)	
<b>470-82-6</b>	<b>Eucalyptol</b>
Oral, LD50: 3849 mg/kg (mouse) (Jiao Xu, 2014)	
<b>104-54-1</b>	<b>Cinnamyl alcohol</b>
Oral, LD50: 2000 mg/kg (rat)	
Dermal, LD50: >5000 mg/kg (Rabbit)	
<b>120-51-4</b>	<b>Benzyl benzoate</b>
Oral, LD50: 1700 mg/kg (rat)	
Oral, LD50: 3450 mg/kg (mouse) (Bier, 1979)	
Dermal, LD50: 4000 mg/kg (Rabbit)	

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- Primary irritant effect:
- Skin corrosion/irritation  
Irritant to skin and mucous membranes.
- Serious eye damage/irritation  
No irritating effect.
- Respiratory or skin sensitisation
- 104-55-2 cinnamaldehyde**  
Dermal, OECD 429 LLNA: SENSITIZER (mouse) (EC3 1,1%, RIFM 2004)
- 120-51-4 Benzyl benzoate**  
Sensitisation, NESIL: 59000 ug/cm<sup>2</sup> (human being) (Standard IFRA)  
Sensitization possible through skin contact.
- Subacute to chronic toxicity:
- 104-55-2 cinnamaldehyde**  
Oral, NOAEL: 100 mg/kg (rat) (2 years, RIFM 2019)
- 78-70-6 Linalool**  
Oral, NOAEL: 200 mg/kg (rat) (maternal toxicity, Politano and al., 2008)
- Additional toxicological information:  
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:  
Harmful
- Germ cell mutagenicity
- 104-55-2 cinnamaldehyde**  
OECD 471 AMES: NEGATIVE (in vitro) (NTP 2004)
- 78-70-6 Linalool**  
OECD 471 AMES: NEGATIVE (in vitro) (Letizia and al., 2007)
- 87-44-5 beta-Caryophyllene**  
OECD 471 AMES: NEGATIVE (in vitro) (Heck and al., 1989)
- 105-87-3 Geranyl acetate**  
OECD 471 AMES: NEGATIVE (in vitro) (NTP 1987)
- 470-82-6 Eucalyptol**  
OECD 471 AMES: NEGATIVE (in vitro) (Haworth, 1983)
- 120-51-4 Benzyl benzoate**  
OECD 471 AMES: NEGATIVE (in vitro) (Schunk and al., 1986)
- Carcinogenicity
- 104-55-2 cinnamaldehyde**  
Micronoyau: NEGATIVE (mouse) (NTP 2004)
- 78-70-6 Linalool**  
Micronoyau: NEGATIVE (mouse) (in vivo, Letizia and al., 2007)  
Micronoyau: NEGATIVE (in vitro) (DiSotto and al., 2011)
- 105-87-3 Geranyl acetate**  
Micronoyau: NEGATIVE (mouse) (in vivo, Shelby 1993)
- Reproductive toxicity  
Not determined.
- STOT-single exposure  
Not determined.
- STOT-repeated exposure  
Not determined.
- Aspiration hazard  
May be fatal if swallowed and enters airways.

**SECTION 12: Ecological information**

- 12.1 Toxicity
- Aquatic toxicity:
  - 5989-27-5 (R)-p-mentha-1,8-diene**  
LD50: 0,71 mg/l (fish) (OECD 203)
  - 123-35-3 Myrcene**  
LD50: 0,51 mg/l (fish) (OECD 203)  
CE50/48h: 0,65 mg/l (daphnia)
  - 104-55-2 cinnamaldehyde**

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ErC50(0-48h): 3,86 mg/l (daphnia) (RIFM 2003)  
96h-LC50: 4,15 mg/l (fish) (RIFM 1993)

**78-70-6 Linalool**

LD50: 27,8 mg/l (fish) ((OECD 203) RIFM 1991)  
ErC50(0-72h): 156,7 mg/l (algae)  
ErC50(0-48h): 59 mg/l (daphnia) ((OECD 202)

**99-87-6 p-cymene**

LD50: 1,63 mg/l (fish) (OECD 203)

**12.2 Persistence and degradability**

No further relevant information available.

- Behaviour in environmental systems:  
Not determined.

**12.3 Bioaccumulative potential**

No further relevant information available.

**12.4 Mobility in soil**

No further relevant information available.

- Ecotoxicological effects:  
Not determined.
- Additional ecological information:
- General notes:  
Very toxic for aquatic organisms  
The product contains materials that are harmful to the environment.

**12.5 Results of PBT and vPvB assessment**

- PBT:  
Not applicable.
- vPvB:  
Not applicable.

**12.6 Other adverse effects**

No further relevant information available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

- Recommendation  
Must be specially treated adhering to official regulations.
- Uncleaned packaging:
- Recommendation:  
Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**14.1 UN-Number**

**ADR** UN1169

**IMDG** UN1169

**IATA** UN1169

**14.2 UN proper shipping name**

**ADR** 1169 EXTRACTS, AROMATIC, LIQUID

**IMDG** EXTRACTS, AROMATIC, LIQUID (CITRUS SINENSIS (L.) PERSOON (CH.))

**IATA** EXTRACTS, AROMATIC, LIQUID

**14.3 Transport hazard class(es)**

**ADR**

**Class** 3 (F1) Flammable liquids.

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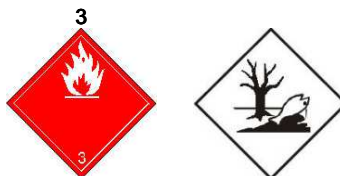
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**Label**

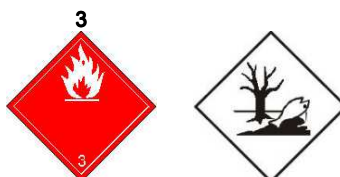


**IMDG**

**Class**

3 Flammable liquids.

**Label**



**IATA**

**Class**

3 Flammable liquids.

**Label**



14.4 Packing group

**ADR** III

**IMDG** III

**IATA** III

14.5 Environmental hazards:

**Marine pollutant:** Yes

14.6 Special precautions for user

Warning: Flammable liquids.

**Danger code (Kemler):** 30

**EMS Number:** F-E,S-D

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

• Transport/Additional information:

Not applicable.

**Excepted quantities (EQ):** E1

**Limited quantities (LQ)** 5L

**Transport category** 3

**Tunnel restriction code** D/E

**IMDG**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** E1

• UN "Model Regulation":

UN 1169 EXTRACTS, AROMATIC, LIQUID, 3, III, ENVIRONMENTALLY HAZARDOUS

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**SECTION 15: Regulatory information**

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

- REGULATION (EC) No 1907/2006 ANNEX XVII  
Conditions of restriction: 3, 40
- National regulations:
- Waterhazard class:  
Water hazard class 2 (Self-assessment): hazardous for water.

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

The information in this safety data sheet is based on the state of our knowledge at the date indicated. The information in this sheet must be regarded as a description of the safety requirements for the product, they are not to be considered a warranty or quality specification and have no contractual value on properties and application areas thereof. The information contained in this safety data sheet relate to the specific material designated and may not be valid with respect to the product associated with another product or process, unless it is specified in the text of this document.

The required information complies with EU regulations in force. It does not exempt the user from knowing and applying all the national regulations in force.

- Relevant phrases
 

H226	Flammable liquid and vapour.
H228	Flammable solid.
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.
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.
H412	Harmful to aquatic life with long lasting effects.
- Training hints
 

Minimum training in occupational risk prevention is recommended for personnel who will handle this product, in the purpose of facilitating the understanding and interpretation of this form of safety data in the same way as the labeling of the product.
- Abbreviations and acronyms:
 

IFRA: International Fragrance Association IOFI: International Organization of the Flavor Industry  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organisation  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative
- Sources
 

IFRA/IOFI Labelling Manual, REACH registration dossier, supplier information
- \* Data compared to the previous version altered.