

# 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

**955210**  
LILYFLORE®  
© Firmenich product

CAS No: 285977-85-7  
EC No: 437-760-1  
REACH No: 01-0000018289-60

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

Fragrance ingredient for use in consumer products.  
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

**Anne-Claude Verrier; Chemical Engineer & Toxicologist**  
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#### 1.4 Emergency telephone number

+44 1235 239 670 Available 24/7 (NCEC)

### **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

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

|   |      |
|---|------|
| Eye Irritation - Cat.2                  | H319 |
| Environmental Hazard (chronic) - Cat. 3 | H412 |

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

#### **Symbols:**

Xi                      Irritant

#### **Risks Phrases:**

R36                      Irritating to eyes.  
R52/53                Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### Additional information

Full text of listed statements : See section 16

### 2.2 Label elements

#### **Hazard pictograms:**



#### **Signal Word:**

Warning

#### **Hazard Statements:**

H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

#### **Precautionary Statements:**

P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P391 Collect spillage.

#### **Hazard Inducers:**

(2,5-Dimethyl-2,3-dihydro-1H-inden-2-yl)methanol

### 2.3 Other hazards

No data available at this time.

## **3 COMPOSITION/INFORMATION ON INGREDIENTS**

### **3.1 Substance**

Chemical substance.

#### Contains :

>= 99.0 <= 100.0%  
(2,5-Dimethyl-2,3-Dihydro-1h-Inden-2-Yl)Methanol  
N° CAS : 0285977-85-7  
N° ELINCS: 437-760-1  
N° REACH: 01-0000018289-60

Classification: Xi - R36,R52/53  
GHS Classification:  
Eye Irritation - Cat.2 [H319]  
Environmental Hazard (chronic) - Cat. 3 [H412]

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### **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 specific data available.

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

No specific data available.

### **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.

### **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

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### 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.

### 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.

### 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.

## **8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 Control parameters

-

### 8.2 Exposure controls

Avoid exposing to high temperature during processing.

Maintain adequate local and general ventilation where product is handled.

### Appropriate engineering controls

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

### Environmental exposure controls

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

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### Personal protection

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

Hand protection: Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals. Preferred glove barrier materials: Neoprene and Nitrile. When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Thickness > or = 0,2mm.

NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

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 COULD CRYSTALLIZE  |
| Colour :                                       | WHITE   |
| 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) :                     | = 142°C   |
| Evaporation rate :                             | Not available   |
| Flammability (solid/gas) :                     | Not available   |
| Upper/lower flammability or explosive limits : |   |
| Vapour pressure (Pa) :                         | .014665486  |
| Vapour density :                               | Not available   |
| Relative density (d 20/20) :                   | Not available   |
| Water solubility (20°C) :                      | Not available   |
| Partition coef. (n-octanol/water) :            | 2.94  |
| Auto-ignition temperature (°C) :               | Not available   |
| Decomposition temperature :                    | Not available   |
| Viscosity :                                    | Not available   |
| Explosive properties :                         | Not available   |
| Oxidizing properties :                         | Not available   |

### 9.2 Other safety information

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None

### **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**

#### **11.1 Information on toxicological effects**

LD50 (oral, rat)(OECD 401): > 2000 mg/kg

LD50 (dermal, rat) (OECD 402): > 2000 mg/kg

Irritation (dermal, rabbit)(OECD 404): Non irritant @ 100%

Irritation (ocular, rabbit)(OECD 405): Irritant @ 100%

Sensitization (Guinea pig Max.)(OECD 406): Non sensitizing

Sensitization (HRIPT): Non sensitizing @ 10% in Diethyl phthalate

Mutagenicity (Ames test) (OECD 471): Non mutagenic

Mutagenicity (Mouse lymphoma test) (OECD 476): Non mutagenic

Phototoxicity (Human study): No effects @ 10% in Ethanol

Sub-acute toxicity (oral, 28 days, rats) (OECD 407): NOAEL = 150 mg/kg/day

### **12 ECOLOGICAL INFORMATION**

Ready biodegradability (OECD 301B): 7%

Acute fish toxicity (OECD 203): Measured 96-hr LC50 : 14.4 mg/l

Acute daphnia toxicity (OECD 202): Measured 48-hr EC50 : 27.2 mg/l

Algal inhibition test (OECD 201): Measured ErC50 (72-hr): 26.6 mg/l

Activated sludge respiration inhibition test (OECD 209): 3-hr EC50 : 270 mg/l

Abiotic degradation, hydrolysis as a function of pH (OECD 111) : Stable at pH 4, 7 and 9. Half-life greater than 1 year at 25°C.

### **13 DISPOSAL CONSIDERATIONS**

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### **13.1 Waste treatment methods**

Product: when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste.

Contaminated packaging: for used, contaminated and residual materials additional evaluations may be required.

Do not dump into any sewers, on the ground, or into any body of water.

### **14 TRANSPORT INFORMATION**

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

#### UNO

|                       |               |
|-----------------------|---------------|
| UN-No:                | Not regulated |
| Proper Shipping Name: | N/A           |
| Class:                | ----          |
| Packing Group:        | ---           |

#### Land transport (ADR/RID)

|                       |               |
|-----------------------|---------------|
| UN-No:                | Not regulated |
| Proper Shipping Name: | N/A           |
| Class:                | ----          |
| Packing group:        | ---           |

#### Sea transport (IMDG-Code)

|                       |               |
|-----------------------|---------------|
| UN-No:                | Not regulated |
| Proper Shipping Name: | N/A           |
| Class:                | ----          |
| Packing group:        | ---           |

#### Air transport (ICAO-IATA)

|                       |               |
|-----------------------|---------------|
| UN-No:                | Not regulated |
| Proper Shipping Name: | N/A           |
| Class:                | ----          |
| Packing group:        | ---           |

### **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.

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### 15.2 Chemical Safety Assessment

If there are no Exposure Scenarios included as an annex in this safety data sheet one of the following justification applies:

- The substance is registered in quantities lower than 10 tonnes/year and then no obligation to carry out a Chemical Safety Assessment (CSA) and prepare a Chemical Safety Report (CSR),

Or

- The substance is registered as an onsite isolated or transported isolated intermediate and then the registration dossier do not need to include a Chemical Safety Report (CSR),

Or

- The substance does not meet the criteria of article 14.4.

Or

- The substance is a notified substance under Directive 67/548/EEC (NONS).

### 16 OTHER INFORMATION

#### Revisions

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

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

20-Apr-2013: Version 6.3 - Updates to sections 1, 2, 3, 6, 8.1, 14, 16.

07-July-2014: Version 6.4 Updates to sections 2, 3, 14, 16.

30-May-2015: Version 6.5 Updates to sections 2, 3, 7, 8, 9,13,14,16

#### Key literature references

RIFM database

OECD SIDS

EU IUCLID

Supplier information

#### Full text of phrases used under section 2

|                |  |
|----------------|--|
| S25            | Avoid contact with eyes.   |
| S26            | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                    |
| S61            | Avoid release to the environment. Refer to special instructions/Safety data sheets.  |
| H319           | Causes serious eye irritation.   |
| H412           | Harmful to aquatic life with long lasting effects.   |
| P264           | Wash thoroughly after handling.  |
| P273           | Avoid release to the environment.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |



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P391 Collect spillage.

### Full text of phrases used under section 3

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**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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