

# 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

**225712 D**  
SYLVESTER  
© Firmenich product

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

Concentrated aromatic raw material.  
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

**Dr. Daniel Grell**  
Firmenich SA  
Case postale 239  
CH - 1211 GENEVE 8  
daniel.grell@firmenich.com  
Tel: +41.22/780.22.11 - Fax: +41.22/343.73.22

#### 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]

Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	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:**

Xi	Irritant
N	Dangerous for the environment

#### **Risks Phrases:**

R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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### 2.1.3 Additional information

Full text of R- and S-phrases: see section 16

### 2.2 Label elements

#### Hazard pictograms:



#### Signal Word:

Warning

#### Hazard Statements:

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.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Supplemental Hazard information:

Contains: Coumarin, cyclamen aldehyde, acetyl cedrene, Formyl-Dimethylcyclohexene, Limonene, cuminic aldehyde, acetyltetramethyloctaline, dimethyl-cyclohexene-pentenone, pinene, beta-, pinene, alpha-, phenylbutanal, 3-. May produce an allergic reaction.

#### Hazard Inducers:

Terpineol  
7-Octen-2-ol, 2,6-dimethyl-  
Undecanal, 2-methyl-  
Decanal

### 2.3 Other hazards

No data available at this time.

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

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Mixture of aromatic substances.

### Contains :

- |              |  |
|--------------|--|
| 10.0 - 15.0% | <p>Terpineol<br/>N° CAS : 8000-41-7 / N° EINECS: 232-268-1 / N° REACH:<br/>Classification: Xi - R38<br/>GHS Classification:<br/>Eye Irritation - Cat.2<br/>Skin Irritation - Cat. 2<br/>Flammable Liquid - Cat. 4</p>  |
| 5.0 - 7.5%   | <p>7-Octen-2-ol, 2,6-dimethyl-<br/>N° CAS : 18479-58-8 / N° EINECS: 242-362-4 / N° REACH:<br/>Classification: Xi - R38<br/>GHS Classification:<br/>Eye Irritation - Cat.2</p>  |
| 5.0 - 7.5%   | <p>Undecanal, 2-methyl-<br/>N° CAS : 110-41-8 / N° EINECS: 203-765-0 / N° REACH:<br/>Classification: Xi - R38,R52/53<br/>GHS Classification:<br/>Eye Irritation - Cat.2<br/>Skin Irritation - Cat. 2<br/>Environmental Hazard (chronic) - Cat. 3</p>   |
| 2.5 - 5.0%   | <p>Decanal<br/>N° CAS : 112-31-2 / N° EINECS: 203-957-4 / N° REACH:<br/>Classification: Xi - R38,R52/53<br/>GHS Classification:<br/>Eye Irritation - Cat.2<br/>Skin Irritation - Cat. 2<br/>Environmental Hazard (chronic) - Cat. 3</p>  |
| 2.5 - 5.0%   | <p>Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-<br/>N° CAS : 76-22-2 / N° EINECS: 200-945-0 / N° REACH:<br/>Classification: F Xn - R20,R68/22,R11<br/>GHS Classification:<br/>Acute Toxicity (inhalation) - Cat. 4<br/>Specific Target Organ Toxicity - Single Exposure - Cat. 2<br/>Flammable Liquid - Cat. 4</p> |
| 2.5 - 5.0%   | <p>4,7-Methano-1H-inden-6-ol, 3a,4,5,6,7,7a-hexahydro-, acetate<br/>N° CAS : 5413-60-5 / N° EINECS: 226-501-6 / N° REACH:<br/>Classification: - R52/53<br/>GHS Classification:<br/>Environmental Hazard (chronic) - Cat. 3</p>   |

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- 1.0 - 2.5% 3-Cyclohexene-1-methanol, .alpha.,.alpha.,4-trimethyl-, acetate  
N° CAS : 80-26-2 / N° EINECS: 201-265-7 / N° REACH:  
Classification: N - R51/53  
GHS Classification:  
Environmental Hazard (chronic) - Cat. 2
- 1.0 - 2.5% Ethanone, 1-(2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulen-5-yl)-, [3R-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]-  
N° CAS : 32388-55-9 / N° EINECS: 251-020-3 / N° REACH:  
Classification: Xi N - R50/53,R43  
GHS Classification:  
Environmental Hazard (acute) - Cat. 1  
Environmental Hazard (chronic) - Cat. 1
- 1.0 - 2.5% Acetic acid, (3-methylbutoxy)-, 2-propenyl ester  
N° CAS : 67634-00-8 / N° EINECS: 266-803-5 / N° REACH:  
Classification: Xn - R22,R38  
GHS Classification:  
Acute Toxicity (oral) - Cat. 4  
Skin Irritation - Cat. 2
- 1.0 - 2.5% Cyclohexene, 1-methyl-4-(1-methylethylidene)-  
N° CAS : 586-62-9 / N° EINECS: 209-578-0 / N° REACH:  
Classification: Xn N - R51/53,R65,R10  
GHS Classification:  
Flammable Liquid - Cat. 3  
Environmental Hazard (chronic) - Cat. 2
- 1.0 - 2.5% Ethanone, 1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)-  
N° CAS : 54464-57-2 / N° EINECS: 259-174-3 / N° REACH:  
Classification: Xi N - R51/53,R43  
GHS Classification:  
Environmental Hazard (chronic) - Cat. 2
- 1.0 - 2.5% Benzenepropanal, .beta.-methyl-  
N° CAS : 16251-77-7 / N° EINECS: 240-362-9 / N° REACH:  
Classification: Xi - R43  
GHS Classification:  
-
- 1.0 - 2.5% Dodecanal  
N° CAS : 112-54-9 / N° EINECS: 203-983-6 / N° REACH:  
Classification: Xi N - R38,R51/53  
GHS Classification:  
Skin Irritation - Cat. 2  
Environmental Hazard (chronic) - Cat. 2

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0.5 - 1.0%	<p>Benzene, 1,1'-oxybis- N° CAS : 101-84-8 / N° EINECS: 202-981-2 / N° REACH: Classification: N - R50/53 GHS Classification: Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1</p>
0.5 - 1.0%	<p>limonene N° CAS : 138-86-3 / N° EINECS: 205-341-0 / N° REACH: Classification: Xn N - R38,R43,R50/53,R65,R10 GHS Classification: Flammable Liquid - Cat. 3 Skin Irritation - Cat. 2 Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1</p>
0.1 - 0.5%	<p>Benzenepropanal, .alpha.-methyl-4-(1-methylethyl)- N° CAS : 103-95-7 / N° EINECS: 203-161-7 / N° REACH: Classification: Xn N - R38,R51/53,R43,R62 GHS Classification: Skin Irritation - Cat. 2 Environmental Hazard (chronic) - Cat. 2 Reproductive Toxicity - Cat. 2</p>
0.1 - 0.5%	<p>Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- N° CAS : 127-91-3 / N° EINECS: 204-872-5 / N° REACH: Classification: Xn N - R43,R50/53,R65,R10 GHS Classification: Flammable Liquid - Cat. 3 Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1</p>
0.1 - 0.5%	<p>Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl- N° CAS : 80-56-8 / N° EINECS: 201-291-9 / N° REACH: Classification: Xn N - R43,R50/53,R65,R10 GHS Classification: Flammable Liquid - Cat. 3 Environmental Hazard (acute) - Cat. 1 Environmental Hazard (chronic) - Cat. 1</p>
0.1 - 0.5%	<p>Phenol, 5-methyl-2-(1-methylethyl)- N° CAS : 89-83-8 / N° EINECS: 201-944-8 / N° REACH: Classification: C N - R22,R34,R51/53 GHS Classification: Eye Damage - Cat.1 Skin Corrosion - Cat. 1C Acute Toxicity (oral) - Cat. 4</p>

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0.1 - 0.5%

3-Buten-2-one, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-  
N° CAS : 14901-07-6 / N° EINECS: 238-969-9 / N° REACH:  
Classification: N - R51/53  
GHS Classification:  
Environmental Hazard (chronic) - Cat. 2

### **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.

### **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.

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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.

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

### 8.1 Control parameters

0000101-84-8 : Diphenylether (Dampf)

Technische Regeln für Gefahrstoffe - Grenzwerte in der Luft am Arbeitsplatz 'Luftgrenzwerte' (2010-FEB)

Kurzzeitwert (2001-APR) : 1 ppm , 15 Minuten (Alle Formen)

Kurzzeitwert (2001-APR) : 7.1 mg/m<sup>3</sup> , 15 Minuten (Alle Formen)

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SCHICHTMITTEL (2001-APR) : 1 ppm , 8 Stunden (Alle Formen)  
SCHICHTMITTEL (2001-APR) : 7.1 mg/m<sup>3</sup> , 8 Stunden (Alle Formen)

### 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 protection.

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 YELLOW  
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) : = 84°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) : 0.949 - 0.959  
Water solubility (20°C) : Not applicable  
Partition coef. (n-octanol/water) : Not applicable  
Auto-ignition temperature (°C) : Not available  
Decomposition temperature : Not available  
Viscosity : Not available  
Explosive properties : Not available  
Oxidizing properties : Not available

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### **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 preparation has not been subjected to toxicological testing as an entity but has been blended from materials with established toxicological bibliographies. In view of the difficulty of using current standard toxicological evaluation techniques to predict potential hazards to susceptible individuals or arising from unforeseeable potentiation, this preparation should be considered and handled as if it displayed health hazards and treated in consequence with all possible precaution.

### **12 ECOLOGICAL INFORMATION**

This preparation has not been subjected to ecotoxicological testing as an entity. In view of the difficulty of using current standard ecotoxicological evaluation techniques to predict the impact of particular modes of release on vulnerable or localised parts of the ecosystem, this preparation should be considered and handled as if it displayed potential environmental hazards, and treated in consequence with all possible precaution.

### **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.

#### 14.1 UNO

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

### 14.3 Sea transport (IMDG-Code)

UN-No: 3082  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(TERPINYL ACETATE;ACETYL CEDRENE)  
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.  
(TERPINYL ACETATE;ACETYL CEDRENE)  
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.

#### **National regulations (Germany):**

Wassergefährdungsklasse (water hazard class): 2

### 15.2 Chemical Safety Assessment

No data available at this time.

## **16 OTHER INFORMATION**

### 16.1 Revisions

01-Dec-2010: Version 1.1 - First version validated for publication

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### 16.2 Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

### 16.3 Risk & Safety Phrases used under section 2

R38	Irritating to skin.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S24/25	Avoid contact with skin and eyes.
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.
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.
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.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P337	If eye irritation persists:

### 16.4 Risk Phrases used under section 3

R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R34	Causes burns.
R38	Irritating to skin.
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.
R62	Possible risk of impaired fertility.
R65	Harmful: may cause lung damage if swallowed.

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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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