

# 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

**552969 T**  
SOURSOP KEY FLAVOUR  
© Firmenich product

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

Ingredient for use in products that may be ingested.  
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

Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Eye Damage - Cat.1	H318
Carcinogenicity - Cat. 2	H351
Environmental Hazard (chronic) - Cat. 3	H412

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

**Hazard pictograms:**

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### Signal Word:

Danger

### Hazard Statements:

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary Statements:

P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405	Store locked up.

### Supplemental Hazard information (EU):

Contains: Hexenol, Trans-2-, Acetylpropionyl, Methyl Cinnamate, Hexenal. May produce an allergic reaction.

### Hazard Inducers:

Octanoic acid  
2-furaldehyde  
2-Hexen-1-ol, (E)-  
1,6,10-Dodecatrien-3-ol, 3,7,11-trimethyl-

### 2.3 Other hazards

No data available at this time.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Mixture of aromatic substances.

Contains :

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>= 10.0 < 15.0%  
3-Hexen-1-ol, (Z)-  
N° CAS : 0000928-96-1  
N° ELINCS: --

GHS Classification:  
Eye Irritation - Cat.2 [H319]  
Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0%  
Hexan-1-ol  
N° CAS : 0000111-27-3  
N° EINECS: 203-852-3

GHS Classification:  
Acute Toxicity (oral) - Cat. 4 [H302]  
Acute Toxicity (dermal) - Cat. 4 [H312]  
Eye Irritation - Cat.2 [H319]  
Flammable Liquid - Cat. 3 [H226]

N° Index : 603-059-00-6

>= 1.0 < 2.5%  
Octanoic Acid  
N° CAS : 0000124-07-2  
N° EINECS: 204-677-5

GHS Classification:  
Skin Corrosion - Cat. 1C [H314]  
Eye Damage - Cat.1 [H318]  
Environmental Hazard (chronic) - Cat. 3 [H412]

>= 1.0 < 2.5%  
1-Heptanol  
N° CAS : 0000111-70-6  
N° EINECS: 203-897-9

GHS Classification:  
Eye Irritation - Cat.2 [H319]

>= 1.0 < 2.5%  
2-Furaldehyde  
N° CAS : 0000098-01-1  
N° EINECS: 202-627-7

GHS Classification:  
Carcinogenicity - Cat. 2 [H351]  
Acute Toxicity (oral) - Cat. 3 [H301]  
Acute Toxicity (inhalation) - Cat. 2 [H330]  
Acute Toxicity (dermal) - Cat. 4 [H312]  
Specific Target Organ Toxicity - Single Exposure -  
Cat. 3 Respiratory Irritation [H335]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2 [H319]

N° Index : 605-010-00-4

>= 1.0 < 2.5%  
2-Hexen-1-ol, (E)-  
N° CAS : 0000928-95-0  
N° EINECS: 213-191-2

GHS Classification:  
Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2 [H319]  
Flammable Liquid - Cat. 3 [H226]

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$\geq 1.0 < 2.5\%$

6-Octen-1-ol, 3,7-Dimethyl-, Acetate

N° CAS : 0000150-84-5

N° EINECS: 205-775-0

GHS Classification:

Skin Irritation - Cat. 2 [H315]

Environmental Hazard (chronic) - Cat. 2 [H411]

$\geq 1.0 < 2.5\%$

1,6,10-Dodecatrien-3-ol, 3,7,11-Trimethyl-

N° CAS : 0007212-44-4

N° EINECS: 230-597-5

GHS Classification:

Eye Irritation - Cat.2 [H319]

Environmental Hazard (acute) - Cat. 1 [H400]

Environmental Hazard (chronic) - Cat. 1 [H410]

$\geq 1.0 < 2.5\%$

Propionic Acid

N° CAS : 0000079-09-4

N° EINECS: 201-176-3

GHS Classification:

Skin Corrosion - Cat. 1B [H314]

Eye Damage - Cat.1 [H318]

Specific Target Organ Toxicity - Single Exposure -  
Cat. 3 Respiratory Irritation [H335]

Flammable Liquid - Cat. 3 [H226]

$\geq 1.0 < 2.5\%$

2-Hexenal, (E)-

N° CAS : 0006728-26-3

N° EINECS: 229-778-1

GHS Classification:

Acute Toxicity (dermal) - Cat. 3 [H311]

Skin Sensitization - Cat. 1B [H317]

Acute Toxicity (oral) - Cat. 4 [H302]

Environmental Hazard (chronic) - Cat. 2 [H411]

Flammable Liquid - Cat. 3 [H226]

$\geq 1.0 < 2.5\%$

2,3-Pentanedione

N° CAS : 0000600-14-6

N° EINECS: 209-984-8

GHS Classification:

Eye Damage - Cat.1 [H318]

Specific Target Organ Toxicity - Repeated Exposure  
- Cat. 2 [H373]

Skin Sensitization - Cat. 1B [H317]

Flammable Liquid - Cat. 2 [H225]

$\geq 1.0 < 2.5\%$

Isobutyric Acid

N° CAS : 0000079-31-2

N° EINECS: 201-195-7

GHS Classification:

Skin Corrosion - Cat. 1B [H314]

Eye Damage - Cat.1 [H318]

Acute Toxicity (dermal) - Cat. 3 [H311]

Acute Toxicity (oral) - Cat. 4 [H302]

N° Index : 607-063-00-9

$\geq 0.5 < 1.0\%$

2-Propenoic Acid, 3-Phenyl-, Methyl Ester

N° CAS : 0000103-26-4

N° EINECS: 203-093-8

GHS Classification:

Skin Sensitization - Cat. 1B [H317]

#### **4 FIRST-AID MEASURES**

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### 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.

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.

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### 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

0000098-01-1 : 2-furaldehyde (All forms)

UK Health and Safety Executive, EH 40/2005 Workplace Exposure Limits (2000-FEB)

STEL-WEL (2000-FEB) : 5 ppm , 15 minutes (All forms)

STEL-WEL (2000-FEB) : 20 mg/m<sup>3</sup> , 15 minutes (All forms)

TWA-WEL (2000-FEB) : 2 ppm , 8 hours (All forms)

TWA-WEL (2000-FEB) : 8 mg/m<sup>3</sup> , 8 hours (All forms)

0000079-09-4 : propionic acid (All forms)

Directive 2009/148/EC on the Protection of Workers from the Risks related to Exposure to Asbestos at Work (2000-JUN)

STEL (2000-JUN) : 20 ppm , 15 minutes (All forms)

STEL (2000-JUN) : 62 mg/m<sup>3</sup> , 15 minutes (All forms)

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TWA (2000-JUN) : 10 ppm , 8 hours (All forms)  
TWA (2000-JUN) : 31 mg/m<sup>3</sup> , 8 hours (All forms)

0000079-09-4 : propionic acid (All forms)

UK Health and Safety Executive, EH 40/2005 Workplace Exposure Limits (1997-JAN)

STEL-WEL (1997-JAN) : 15 ppm , 15 minutes (All forms)

STEL-WEL (1997-JAN) : 46 mg/m<sup>3</sup> , 15 minutes (All forms)

TWA-WEL (1997-JAN) : 10 ppm , 8 hours (All forms)

TWA-WEL (1997-JAN) : 31 mg/m<sup>3</sup> , 8 hours (All forms)

### 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.

### 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 > = 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 :	CLEAR LIQUID
Colour :	PALE YELLOW
Odour :	Characteristic strong odour according to the commercial description of the substance.

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pH :	Not available
Melting point/range (°C) :	Not available
Initial boiling point/range (°C) :	Not available
Flash point (closed cup) :	= 67°C
Evaporation rate :	Not available
Flammability (solid/gas) :	Not available
Upper/lower flammability or explosive limits :	
Vapour pressure (Pa) :	Not applicable
Vapour density :	Not available
Relative density (d 20/20) :	1.026 - 1.046
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

### 9.2 Other safety information

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**



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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**

#### **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

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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.

15.2 Chemical Safety Assessment

No data available at this time

### **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  
13-June-2016: Version 6.6 Updates to sections 2, 3, 16

#### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

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

H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P281	Use personal protective equipment as required.
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.

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P310	Immediately call a POISON CENTER or doctor/physician.
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.
P405	Store locked up.
P308	IF exposed or concerned:

### Full text of phrases used under section 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
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.

**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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