

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

**221997 B**  
SMOOTH DARE  
© Firmenich product

#### 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

Firmenich Incorporated  
250 Plainsboro Road  
Princeton  
New Jersey 08536  
USA  
Tel: +1 609 452 10 00

PSRA.Fragrance.Firinc@firmenich.com

#### 1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 866 928 0789 (TOLL FREE) OR +1 215 207 0061.

### **2 HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Flammable Liquid - Cat. 4	H227
Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Reproductive Toxicity - Cat. 2	H361
Environmental Hazard (chronic) - Cat. 2	H411

#### Additional information

Full text of listed statements : See section 16

#### 2.2 Label elements

**Hazard pictograms:**

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**Signal Word:**

Warning

**Hazard Statements:**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H227	Combustible liquid
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

**Precautionary Statements:**

P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

### 2.3 Other hazards

No data available at this time.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

The exact percentage (concentration) of composition has been withheld as a trade secret.

### 3.2 Mixture

Mixture of aromatic substances.

**Contains :**

$\geq 7.5 < 10.0\%$

Ethanone, 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-Tetramethyl-2-Naphthalenyl)-

N° CAS : 0054464-57-2

N° ELINCS: --

N° EU REACH: 01-2119489989-04

**GHS Classification:**

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

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

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>=2.5 < 5.0%

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

N° CAS : 0000115-95-7

N° EINECS: 204-116-4

N° EU REACH: 01-2119454789-19

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2B [H320]

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

Cyclohexanol, 2-(1,1-Dimethylethyl)-, Acetate

N° CAS : 0000088-41-5

N° EINECS: 243-718-1

N° EU REACH: 01-2119970713-33

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

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

7-Octen-2-ol, 2,6-Dimethyl-

N° CAS : 0018479-58-8

N° EINECS: 242-362-4

N° EU REACH: 01-2119457274-37

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

Limonene

N° CAS : 0000138-86-3

N° EINECS: 227-813-5

N° EU REACH: 01-2119529223-47

Aspiration Hazard - Cat. 1 [H304]

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

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

Environmental Hazard (chronic) - Cat. 3 [H412]

Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0%

Hexahydrohexamethylindenopyran

N° CAS : 0001222-05-5

N° EINECS: 214-946-9

N° EU REACH: 01-2119488227-29

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

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

>= 1.0 < 2.5%

Cyclododecane, (Ethoxymethoxy)-

N° CAS : 0058567-11-6

N° EINECS: 261-332-1

N° EU REACH: 01-2119971571-34

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

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

>= 1.0 < 2.5%

Ethanone, 1-(5,6,7,8-Tetrahydro-3,5,5,6,8,8-Hexamethyl-2-Naphthalenyl)-

N° CAS : 0021145-77-7

N° EINECS: 216-133-4

N° EU REACH: 01-2119539433-40

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

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

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

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>= 1.0 < 2.5%  
2h-1-Benzopyran-2-One  
N° CAS : 0000091-64-5  
N° EINECS: 202-086-7  
N° EU REACH: 01-2119949300-45

Skin Sensitization - Cat. 1B [H317]  
Acute Toxicity (oral) - Cat. 4 [H302]

>= 1.0 < 2.5%  
Linalool  
N° CAS : 0000078-70-6  
N° EINECS: 201-134-4  
N° EU REACH: 01-2119474016-42

Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2A [H319]  
Flammable Liquid - Cat. 4 [H227]

>= 1.0 < 2.5%  
Cyclohexanepropanol, 2,2,6-Trimethyl-.Alpha.-Propyl-  
N° CAS : 0070788-30-6  
N° ELINCS: --  
N° EU REACH: 01-2120085416-52

Skin Sensitization - Cat. 1B [H317]

>= 1.0 < 2.5%  
Vanillin  
N° CAS : 0000121-33-5  
N° EINECS: 204-465-2  
N° EU REACH: 01-2119516040-60

Eye Irritation - Cat.2A [H319]

>= 1.0 < 2.5%  
2-Hexene, 6,6-Dimethoxy-2,5,5-Trimethyl-  
N° CAS : 0067674-46-8  
N° EINECS: 266-885-2  
N° EU REACH: 01-2120741268-52

Skin Irritation - Cat. 2 [H315]  
Environmental Hazard (chronic) - Cat. 3 [H412]  
Flammable Liquid - Cat. 4 [H227]

>= 1.0 < 2.5%  
Acetic Acid, (1-Oxopropoxy)-, 1-(3,3-Dimethylcyclohexyl) Ethyl Ester  
N° CAS : 0236391-76-7  
N° ELINCS: 431-700-8  
N° EU REACH: 01-0000017792-64

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

>= 1.0 < 2.5%  
Ethanol  
N° CAS : 0000064-17-5  
N° EINECS: 200-578-6

Eye Irritation - Cat.2A [H319]  
Flammable Liquid - Cat. 2 [H225]

>= 0.5 < 1.0%  
Ethyl Linalool  
N° CAS : 0010339-55-6  
N° EINECS: 233-732-6  
N° EU REACH: 01-2119969272-32

Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2A [H319]  
Flammable Liquid - Cat. 4 [H227]

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>= 0.5 < 1.0%

1h-3a,7-Methanoazulene, Octahydro-6-Methoxy-  
3,6,8,8-Tetramethyl-, [3r-  
(3.alpha.,3a.beta.,6.beta.,7.beta.,8a.alpha.)]-  
N° CAS : 0019870-74-7  
N° EINECS: 267-510-5  
N° EU REACH: 01-2120228335-61

Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.5 < 1.0%

3-Buten-2-One, 3-Methyl-4-(2,6,6-Trimethyl-2-  
Cyclohexen-1-Yl)-  
N° CAS : 0000127-51-5  
N° EINECS: 204-846-3  
N° EU REACH: 01-2120138569-45

Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (chronic) - Cat. 2 [H411]

>= 0.5 < 1.0%

Benzoic Acid, 2,4-Dihydroxy-3,6-Dimethyl-, Methyl  
Ester  
N° CAS : 0004707-47-5  
N° EINECS: 225-193-0  
N° EU REACH: 01-2120762759-36

Skin Sensitization - Cat. 1B [H317]

>= 0.5 < 1.0%

1,3-Benzodioxole-5-Propanal, .Alpha.-Methyl-  
N° CAS : 0001205-17-0  
N° EINECS: 214-881-6  
N° EU REACH: 01-2120740119-58

Reproductive Toxicity - Cat. 2 [H361]  
Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (chronic) - Cat. 2 [H411]

>= 0.1 < 0.5%

1,4-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)-  
N° CAS : 0000099-85-4  
N° EINECS: 202-794-6  
N° EU REACH: 01-2120780478-40

Reproductive Toxicity - Cat. 2 [H361]  
Aspiration Hazard - Cat. 1 [H304]  
Environmental Hazard (chronic) - Cat. 2 [H411]  
Flammable Liquid - Cat. 3 [H226]

>= 0.1 < 0.5%

Bicyclo[3.1.1]Heptane, 6,6-Dimethyl-2-Methylene-  
N° CAS : 0000127-91-3  
N° EINECS: 242-060-2

Aspiration Hazard - Cat. 1 [H304]  
Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]  
Flammable Liquid - Cat. 3 [H226]

>= 0.1 < 0.5%

4h-Inden-4-One, 1,2,3,5,6,7-Hexahydro-1,1,2,3,3-  
Pentamethyl-  
N° CAS : 0033704-61-9  
N° EINECS: 251-649-3  
N° EU REACH: 01-2119977131-40

Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2A [H319]  
Environmental Hazard (chronic) - Cat. 2 [H411]

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>= 0.1 < 0.5%  
Hexenyl Salicylate  
N° CAS : 0065405-77-8  
N° EINECS: 265-745-8  
N° EU REACH: 01-2119987320-37

Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 2 [H411]

>= 0.1 < 0.5%  
Citral  
N° CAS : 0005392-40-5  
N° EINECS: 226-394-6  
N° EU REACH: 01-2119462829-23

Skin Sensitization - Cat. 1 [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2A [H319]

>= 0.1 < 0.5%  
6-Octen-1-ol, 3,7-Dimethyl-  
N° CAS : 0000106-22-9  
N° EINECS: 203-375-0  
N° EU REACH: 01-2119453995-23

Skin Sensitization - Cat. 1B [H317]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat.2A [H319]

>= 0.1 < 0.5%  
Bicyclo[3.1.1]Hept-2-Ene, 2,6,6-Trimethyl-  
N° CAS : 0000080-56-8  
N° EINECS: 232-077-3  
N° EU REACH: 01-2119979519-16

Aspiration Hazard - Cat. 1 [H304]  
Skin Sensitization - Cat. 1B [H317]  
Acute Toxicity (oral) - Cat. 4 [H302]  
Skin Irritation - Cat. 2 [H315]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]  
Flammable Liquid - Cat. 3 [H226]

>= 0.1 < 0.5%  
2,6-Di-Tert-Butyl-P-Cresol  
N° CAS : 0000128-37-0  
N° EINECS: 204-881-4  
N° EU REACH: 01-2119480433-40

Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.1 < 0.5%  
3-Methylcyclopentadecanone  
N° CAS : 0063314-79-4  
N° EINECS: 429-900-5  
N° EU REACH: 01-0000017618-62

Skin Sensitization - Cat. 1B [H317]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.1 < 0.5%  
2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-  
N° CAS : 0000470-82-6  
N° EINECS: 207-431-5  
N° EU REACH: 01-2119967772-24

Skin Sensitization - Cat. 1B [H317]  
Eye Irritation - Cat.2B [H320]  
Flammable Liquid - Cat. 3 [H226]

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>= 0.1 < 0.5%  
Bicyclo[7.2.0]Undec-4-Ene, 4,11,11-Trimethyl-8-Methylene-, [1r-(1r\*,4e,9s\*)]-  
N° CAS : 0000087-44-5  
N° EINECS: 201-746-1  
N° EU REACH: 01-2120745237-53

Aspiration Hazard - Cat. 1 [H304]  
Skin Sensitization - Cat. 1B [H317]

>= 0.1 < 0.5%  
Alpha-Cedrene  
N° CAS : 0000469-61-4  
N° EINECS: 207-418-4

Aspiration Hazard - Cat. 1 [H304]  
Skin Irritation - Cat. 2 [H315]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

>= 0.1 < 0.5%  
Acetic Acid, (3-Methylbutoxy)-, 2-Propenyl Ester  
N° CAS : 0067634-00-8  
N° ELINCS: --  
N° EU REACH: 01-2120794630-50

Acute Toxicity (inhalation) - Cat. 2 [H330]  
Acute Toxicity (oral) - Cat. 4 [H302]  
Acute Toxicity (dermal) - Cat. 4 [H312]  
Environmental Hazard (acute) - Cat. 1 [H400]

>= 0.1 < 0.5%  
2h-1-Benzopyran-6-ol, 3,4-Dihydro-2,5,7,8-Tetramethyl-2-(4,8,12-Trimethyltridecyl)-  
N° CAS : 0010191-41-0  
N° EINECS: 200-412-2

Skin Sensitization - Cat. 1B [H317]

>= 0.1 < 0.5%  
Carvone (Iso)  
N° CAS : 0000099-49-0  
N° EINECS: 202-759-5  
N° EU REACH: 01-2119962458-25

Skin Sensitization - Cat. 1B [H317]  
Flammable Liquid - Cat. 4 [H227]

0 < 0.1%  
2-Propenal, 3-Phenyl-  
N° CAS : 0000104-55-2  
N° EINECS: 203-213-9  
N° EU REACH: 01-2119935242-45

Skin Sensitization - Cat. 1A [H317]  
Acute Toxicity (dermal) - Cat. 4 [H312]  
Skin Irritation - Cat. 2 [H315]  
Eye Irritation - Cat. 2A [H319]  
Environmental Hazard (chronic) - Cat. 3 [H412]

0 < 0.1%  
1h-3a,7-Methanoazulene, Octahydro-3,8,8-Trimethyl-6-Methylene-, [3r-(3.alpha.,3a.beta.,7.beta.,8a.alpha.)]-  
N° CAS : 0000546-28-1  
N° EINECS: 208-898-8

Aspiration Hazard - Cat. 1 [H304]  
Environmental Hazard (acute) - Cat. 1 [H400]  
Environmental Hazard (chronic) - Cat. 1 [H410]

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0 < 0.1%  
2-Buten-1-One, 1-(2,6,6-Trimethyl-1,3-Cyclohexadien-1-Yl)-  
N° CAS : 0023696-85-7  
N° EINECS: 245-844-2  
N° EU REACH: 01-2120105798-49

Skin Sensitization - Cat. 1A [H317]  
Skin Irritation - Cat. 2 [H315]  
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:

In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists.

In case of inhalation:

In the event of exposure to vapors, immediately remove from the area to a fresh air environment. Individuals showing evidence of inhalation exposure should be taken to an uncontaminated area. 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:

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water. Obtain medical advice immediately.

Do not induce vomiting, 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.

Use standard procedures and preferred extinguishing media as stated below.

Extinguishing media: Foam, carbon dioxide or dry chemical.

#### 5.2 Special hazard arising from the substance or mixture

None.

#### 5.3 Advice for fire-fighters

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No specific advice.

### **6 ACCIDENTAL RELEASE MEASURES**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Impervious 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:

Small spills can be wiped up with a cloth or paper. Standard absorbents can be used (saw dust, sand, vermiculite). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water.

Vapors may cause vomiting and nausea. In case of insufficient ventilation, wear appropriate respiratory protection.

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 impervious 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.

Skin residues may cause irritation in sunlight.

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

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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

0000064-17-5 : ETHYL ALCOHOL

US NIOSH Pocket Guide to Chemical Hazards Data

US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Occupational Exposure Limit data. Recommended exposure limit (REL): 1000 ppm

Occupational Exposure Limit data. Recommended exposure limit (REL): 1900 mg/m3

0000064-17-5 : ETHYL ALCOHOL

US OSHA Table Z-1 Data

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Occupational Exposure Limit data. Permissible exposure limit: 1000 ppm

Occupational Exposure Limit data. Permissible exposure limit: 1900 mg/m3

0000064-17-5 : ETHYL ALCOHOL

US OSHA Table Z-1-A Data

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Occupational Exposure Limit data. Time Weighted Average (TWA): 1000 ppm

Occupational Exposure Limit data. Time Weighted Average (TWA): 1900 mg/m3

0000064-17-5 : Ethanol

US ACGIH Threshold Limit Values Data

US. ACGIH Threshold Limit Values, as amended

Occupational Exposure Limit data. Short Term Exposure Limit (STEL): 1000 ppm

0000121-33-5 : VANILLIN

US WEEL Guides Data

US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended

Occupational Exposure Limit data. Time Weighted Average (TWA): 10 mg/m3

0000128-37-0 : 2,6-DI-TERT-BUTYL-P-CRESOL

US NIOSH Pocket Guide to Chemical Hazards Data

US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Occupational Exposure Limit data. Recommended exposure limit (REL): 10 mg/m3

0000128-37-0 : 2,6-DITERT. BUTYL-P-CRESOL

US OSHA Table Z-1-A Data

US. OSHA Table Z-1-A (29 CFR 1910.1000)

Occupational Exposure Limit data. Time Weighted Average (TWA): 10 mg/m3

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0000128-37-0 : Butylated hydroxytoluene (BHT), inhalable fraction and vapor  
US ACGIH Threshold Limit Values Data  
US. ACGIH Threshold Limit Values, as amended  
Occupational Exposure Limit data. Time Weighted Average (TWA): 2 mg/m3

0005392-40-5 : Citral, inhalable fraction and vapor  
US ACGIH Threshold Limit Values Data  
US. ACGIH Threshold Limit Values, as amended  
Occupational Exposure Limit data. Time Weighted Average (TWA): 5 ppm

### Derived No Effect Level (DNEL)

No data available

### Predicted No Effect Concentration (PNEC)

No data available

### 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: Breathing of the vapors or dust particles may be hazardous. In the absence of appropriate engineering controls such as spot ventilation, ventilated enclosures, etc., workers should avail themselves of the appropriate NIOSH approved respiratory protection.  
Hand protection: Adequate and Impervious 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 :	PALE YELLOW TO 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 :	> 104 Fahrenheit (> 40 Centigrade)
Flash point (closed cup) :	= 149 Fahrenheit (= 65 Centigrade)

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Evaporation rate :	Not available
Flammability (solid/gas) :	Not applicable
Upper/lower flammability or explosive limits :	N/A
Vapor pressure (At 20°C in mm Hg ) :	
Calculated vapor pressure (At 20°C in mm Hg):	0.4
Vapour density :	Not available
Relative density (d 20/20) :	0.969 - 0.979
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

Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

### 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

Avoid strong oxidizing agents.

### 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**

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

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.

(a) acute toxicity

Calculated LD50 Oral: LD50 > 2000 mg/kg bw

(b) skin corrosion/irritation

Skin Irritation - Cat. 2

(c) serious eye damage/irritation

Not applicable

(d) respiratory or skin sensitisation

Skin Sensitization - Cat. 1

(e) germ cell mutagenicity

Not applicable

(f) carcinogenicity

Not applicable

(g) reproductive toxicity

Reproductive Toxicity - Cat. 2

(h) STOT-single exposure

Not applicable

(i) STOT-repeated exposure

Not applicable

(j) aspiration hazard

Not applicable

### **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.

12.1 Toxicity

Environmental Hazard (chronic) - Cat. 2

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Other adverse effects

No data available

### **13 DISPOSAL CONSIDERATIONS**

#### **13.1 Waste treatment methods**

Product: The product should be handled according to the instructions given under sections 6, 7 and 8. Dispose of according to local or national regulations. The product should not be allowed to enter drains or the environment.

Contaminated packaging: Empty packaging should be disposed according to local or national regulations by an approved waste handling

### **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: 3082  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.  
(ACETYLTETRAMETHYLOCTALINE)  
Class: 9  
Packing Group: III  
Hazardous to the Environment

#### **Land transport (ADR/RID)**

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

#### **Sea transport (IMDG-Code)**

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

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

Marine pollutant

### Air transport (ICAO-IATA)

UN-No: 3082  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.  
(ACETYL TETRAMETHYLOCTALINE)  
Class: 9  
Packing group: III

## **15 REGULATORY INFORMATION**

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

This mixture contains no toxic chemical or chemicals subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 29 CFR Part 1910.1200.

### 15.2 Chemical Safety Assessment

No data available at this time.

## **16 OTHER INFORMATION**

### Revisions

February-2022 : Version 11 - Updates to sections 1, 2, 3, 8, 9, 11, 12, 14, 15, 16

### Key literature references

RIFM database  
OECD SIDS  
EU IUCLID  
Supplier information

### Full text of phrases used under section 2

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H227	Combustible liquid
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
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.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

# Firmenich

## GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+P235	Store in a well-ventilated place. Keep cool.
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.
H227	Combustible liquid
H302	Harmful if swallowed.
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.
H320	Causes eye irritation.
H330	Fatal if inhaled.
H361	Suspected of damaging fertility or the unborn child.
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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