

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

066265
VERT DE CITRON
© 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

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Firmenich Inc.
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Princeton - New Jersey 08543 - USA
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1.4 Emergency telephone number

FOR INFORMATION OR IN AN EMERGENCY CALL NCEC @ +1 215 207 0061.

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to Regulation HCS 2012

Flammable Liquid - Cat. 3	H226
Aspiration Hazard - Cat. 1	H304
Skin Irritation - Cat. 2	H315
Skin Sensitization - Cat. 1	H317
Eye Irritation - Cat.2A	H319
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:

Danger

Hazard Statements:

H304 May be fatal if swallowed and enters airways.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
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.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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 :

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>= 15.0 < 20.0%

Limonene

N° CAS : 0000138-86-3

N° EINECS: 205-341-0

GHS Classification:

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]

>= 5.0 < 7.5%

7-Octen-2-Ol, 2,6-

Dimethyl-, Formate

N° CAS : 0025279-09-8

N° EINECS: 246-788-1

GHS Classification:

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

Benzene, 1-Methyl-4-(1-

Methylethyl)-

N° CAS : 0000099-87-6

N° EINECS: 202-796-7

GHS Classification:

Aspiration Hazard - Cat. 1 [H304]

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

Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0%

7-Octen-2-Ol, 2,6-

Dimethyl-

N° CAS : 0018479-58-8

N° EINECS: 242-362-4

GHS Classification:

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

6-Octenal, 3,7-Dimethyl-

N° CAS : 0000106-23-0

N° EINECS: 203-376-6

GHS Classification:

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

3-Cyclohexene-1-

Carboxaldehyde, 2,4-

Dimethyl-

N° CAS : 0068039-49-6

N° EINECS: 268-264-1

GHS Classification:

Skin Sensitization - Cat. 1B [H317]

Skin Irritation - Cat. 2 [H315]

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

Flammable Liquid - Cat. 4 [H227]

>=2.5 < 5.0%

Terpineol

N° CAS : 0008000-41-7

N° EINECS: 232-268-1

GHS Classification:

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

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>= 1.0 < 2.5%
2,6-Octadien-1-Ol, 3,7-Dimethyl-, (E)-
N° CAS : 0000106-24-1
N° EINECS: 203-377-1

GHS Classification:
Eye Damage - Cat.1 [H318]
Skin Sensitization - Cat. 1 [H317]
Skin Irritation - Cat. 2 [H315]

>= 1.0 < 2.5%
1,6-Octadien-3-Ol, 3,7-Dimethyl-
N° CAS : 0000078-70-6
N° EINECS: 201-134-4

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

>= 1.0 < 2.5%
Bicyclo[3.1.1]Heptane,
6,6-Dimethyl-2-Methylene-
N° CAS : 0000127-91-3
N° EINECS: 204-872-5

GHS Classification:
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]

>= 1.0 < 2.5%
6-Octen-1-Ol, 3,7-Dimethyl-
N° CAS : 0000106-22-9
N° EINECS: 203-375-0

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

>= 1.0 < 2.5%
1,4-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)-
N° CAS : 0000099-85-4
N° EINECS: 202-794-6

GHS Classification:
Aspiration Hazard - Cat. 1 [H304]
Flammable Liquid - Cat. 3 [H226]

>= 0.5 < 1.0%
Cyclohexene, 1-Methyl-4-(1-Methylethylidene)-
N° CAS : 0000586-62-9
N° EINECS: 209-578-0

GHS Classification:
Aspiration Hazard - Cat. 1 [H304]
Skin Sensitization - Cat. 1B [H317]
Environmental Hazard (acute) - Cat. 1 [H400]
Environmental Hazard (chronic) - Cat. 1 [H410]
Flammable Liquid - Cat. 4 [H227]

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>= 0.5 < 1.0%
2,6-Octadien-1-Ol, 3,7-Dimethyl-, Acetate, (E)-
N° CAS : 0000105-87-3
N° EINECS: 203-341-5

GHS Classification:
Skin Sensitization - Cat. 1 [H317]
Skin Irritation - Cat. 2 [H315]
Environmental Hazard (chronic) - Cat. 3 [H412]

>= 0.5 < 1.0%
2-Oxabicyclo[2.2.2]Octane,
1,3,3-Trimethyl-
N° CAS : 0000470-82-6
N° EINECS: 207-431-5

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

>= 0.5 < 1.0%
Undecanal, 2-Methyl-
N° CAS : 0000110-41-8
N° EINECS: 203-765-0
N° REACH: 01-2119969443-29

GHS Classification:
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. 4 [H227]

>= 0.1 < 0.5%
Bicyclo[3.1.1]Hept-2-Ene,
2,6,6-Trimethyl-
N° CAS : 0000080-56-8
N° EINECS: 201-291-9

GHS Classification:
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%
Cyclohexanol, 4-(1,1-Dimethylethyl)-, Acetate
N° CAS : 0032210-23-4
N° EINECS: 250-954-9
N° REACH: 01-2119976286-24

GHS Classification:
Skin Sensitization - Cat. 1B [H317]

>= 0.1 < 0.5%
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.2B [H320]
Environmental Hazard (acute) - Cat. 1 [H400]
Environmental Hazard (chronic) - Cat. 1 [H410]

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>= 0.1 < 0.5%
Phenol, 2-Methoxy-4-(2-Propenyl)-
N° CAS : 0000097-53-0
N° EINECS: 202-589-1

GHS Classification:
Skin Sensitization - Cat. 1B [H317]
Eye Irritation - Cat.2A [H319]

>= 0.1 < 0.5%
2,6-Octadienal, 3,7-Dimethyl-
N° CAS : 0005392-40-5
N° EINECS: 226-394-6

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

>= 0.1 < 0.5%
Oxirane, 2,2-Dimethyl-3-(3-Methyl-2,4-Pentadienyl)-
N° CAS : 0069103-20-4
N° EINECS: 273-870-4
N° REACH: 01-2120065062-67

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

>= 0.1 < 0.5%
Benzenepropanal, 4-(1,1-Dimethylethyl)-.Alpha.-Methyl-
N° CAS : 0000080-54-6
N° EINECS: 201-289-8

GHS Classification:
Reproductive Toxicity - Cat. 2 [H361]
Skin Sensitization - Cat. 1B [H317]
Acute Toxicity (oral) - Cat. 4 [H302]
Skin Irritation - Cat. 2 [H315]
Environmental Hazard (chronic) - Cat. 2 [H411]
Flammable Liquid - Cat. 4 [H227]

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.

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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 advise immediately.

Do not induce vomiting, obtain medical advise 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

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.

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. Wear appropriate respiratory protection.

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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

0005392-40-5 : Citral (Inhalable fraction and vapor)
American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(2012-MAR)
TWA (2009-NOV) : 5 ppm , 8 hours (All forms)

0000080-56-8 : alpha-Pinene (All forms)
American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(2003-JAN)
TWA (2003-JAN) : 20 ppm , 8 hours (All forms)

0000127-91-3 : beta-Pinene (All forms)
American Conference of Governmental Industrial Hygienists (ACGIH) - Threshold Limit Values (TLV)
(2003-JAN)
TWA (2003-JAN) : 20 ppm , 8 hours (All forms)

0000138-86-3 : d-Limonene (All forms)

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American Industrial Hygiene Association (AIHA) - Workplace Environmental Exposure Levels (WEEL)
(1999-JAN)

TWA (1999-JAN) : 30 ppm , 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: 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 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) : = 124 Fahrenheit (= 51 Centigrade)
Evaporation rate : Not available
Flammability (solid/gas) : Not available
Upper/lower flammability or explosive limits :
Vapor pressure (At 20°C in mm Hg) :
Calculated vapor pressure (At 20°C in mm Hg): 0.5
Vapour density : Not available
Relative density (d 20/20) : 0.919 - 0.929
Water solubility (20°C) : Not applicable

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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

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

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: 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.

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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: 1169
Proper Shipping Name: Extracts, aromatic, liquid
Class: 3
Packing Group: III
Hazardous to the Environment

Land transport (ADR/RID)

UN-No: 1169
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID
Class: 3
Packing group: III

Sea transport (IMDG-Code)

UN-No: 1169
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID (LIMONENE)
Class: 3
Packing group: III
Marine pollutant

Air transport (ICAO-IATA)

UN-No: 1169
Proper Shipping Name: Extracts, aromatic, liquid
Class: 3
Packing group: III

15 REGULATORY INFORMATION

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

This mixture contains a 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 1910.1200.

3.6% Glycol ethers

15.2 Chemical Safety Assessment

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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, 8.1, 14, 16.
- 07-July-2014: Version 6.4- Updates to section 2, 3, 14, 16.
- 30-May-2015: Version 6.5- Updates to section 2, 3, 7, 8, 9,13,14,16
- 13-June-2016: Version 6.6 Updates to sections 2, 3, 16
- 02-Aug-2016: Version 6.7 – Updates to Sections 9, 15, 16

Key literature references

- RIFM database
- OECD SIDS
- EU IUCLID
- Supplier information

Full text of phrases used under section 2

- | | |
|----------------|--|
| H226 | Flammable liquid and vapour. |
| 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. |
| H361 | Suspected of damaging fertility or the unborn child /\$#GHS_ROE#\$/. |
| 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. |
| P240 | Ground/bond container and receiving equipment. |
| P281 | Use personal protective equipment as required. |
| P241 | Use rated explosion-proof electrical equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303+P361+P353 | IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |

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P370+P378	In case of fire: Use appropriate fire extinguishers for fire control.
P391	Collect spillage.
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P235	Keep cool.
P308	IF exposed or concerned:
P337	If eye irritation persists:

Full text of phrases used under section 3

H226	Flammable liquid and vapour.
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
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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