

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

184040
CITROASIS BASE 184040
© 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. 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 (acute) - Cat. 1	H400
Environmental Hazard (chronic) - Cat. 2	H411

Additional information

Full text of listed statements : See section 16

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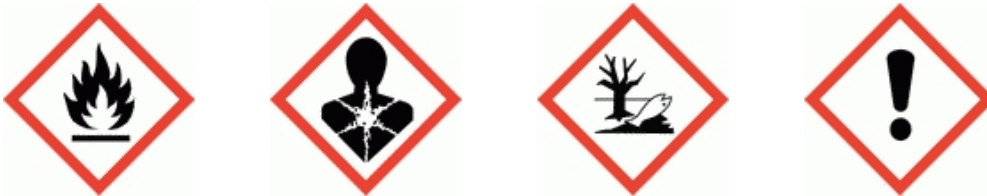
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2.2 Label elements

Hazard pictograms:



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.
H400	Very toxic to aquatic life.
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.

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Contains :

>= 30.0 < 40.0%

Limonene

N° CAS : 0000138-86-3

N° EINECS: 227-813-5

N° EU REACH: 01-2119529223-47

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. 3 [H412]

Flammable Liquid - Cat. 3 [H226]

>= 7.5 < 10.0%

Terpineol

N° CAS : 0008000-41-7

N° ELINCS: --

N° EU REACH: 01-2119553062-49

Skin Irritation - Cat. 2 [H315]

Eye Irritation - Cat.2A [H319]

Flammable Liquid - Cat. 4 [H227]

>= 5.0 < 7.5%

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]

>=2.5 < 5.0%

1-Naphthalenol, 1,2,3,4,4a,5,8,8a-Octahydro-2,2,6,8-Tetramethyl-

N° CAS : 0103614-86-4

N° ELINCS: 434-960-0

N° EU REACH: 01-0000018107-74

Skin Irritation - Cat. 2 [H315]

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

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

>=2.5 < 5.0%

2,6-Octadienal, 3,7-Dimethyl-, Reaction Products With Et Alc.

N° CAS : 0147060-73-9

N° ELINCS: --

N° EU REACH: 01-2120767467-40

Skin Sensitization - Cat. 1B [H317]

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

Flammable Liquid - Cat. 3 [H226]

>=2.5 < 5.0%

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

N° CAS : 0000150-84-5

N° EINECS: 205-775-0

N° EU REACH: 01-2119959860-27

Skin Irritation - Cat. 2 [H315]

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

>= 1.0 < 2.5%

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]

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<p>>= 1.0 < 2.5% Benzeneethanol N° CAS : 0000060-12-8 N° EINECS: 200-456-2 N° EU REACH: 01-2119963921-31</p>	<p>Acute Toxicity (oral) - Cat. 4 [H302] Eye Irritation - Cat.2A [H319]</p>
<p>>= 1.0 < 2.5% 7-Octen-2-Ol, 2,6-Dimethyl- N° CAS : 0018479-58-8 N° EINECS: 242-362-4 N° EU REACH: 01-2119457274-37</p>	<p>Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319] Flammable Liquid - Cat. 4 [H227]</p>
<p>>= 1.0 < 2.5% Cyclohexene, 1-Methyl-4-(1-Methylethylidene)- N° CAS : 0000586-62-9 N° EINECS: 209-578-0 N° EU REACH: 01-2119982325-32</p>	<p>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]</p>
<p>>= 1.0 < 2.5% 1,4-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)- N° CAS : 0000099-85-4 N° EINECS: 202-794-6 N° EU REACH: 01-2120780478-40</p>	<p>Reproductive Toxicity - Cat. 2 [H361] Aspiration Hazard - Cat. 1 [H304] Environmental Hazard (chronic) - Cat. 2 [H411] Flammable Liquid - Cat. 3 [H226]</p>
<p>>= 1.0 < 2.5% 2,6-Octadien-1-Ol, 3,7-Dimethyl-, Acetate, (E)- N° CAS : 0000105-87-3 N° EINECS: 203-341-5 N° EU REACH: 01-2119973480-35</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Environmental Hazard (chronic) - Cat. 3 [H412]</p>
<p>>= 1.0 < 2.5% Decanal N° CAS : 0000112-31-2 N° EINECS: 203-957-4 N° EU REACH: 01-2119967771-26</p>	<p>Eye Irritation - Cat.2A [H319] Environmental Hazard (chronic) - Cat. 3 [H412] Flammable Liquid - Cat. 4 [H227]</p>
<p>>= 0.5 < 1.0% 2,6-Octadien-1-Ol, 3,7-Dimethyl-, (Z)- N° CAS : 0000106-25-2 N° EINECS: 203-378-7 N° EU REACH: 01-2119983244-33</p>	<p>Skin Sensitization - Cat. 1B [H317] Skin Irritation - Cat. 2 [H315] Eye Irritation - Cat.2A [H319]</p>
<p>>= 0.5 < 1.0% 2-Buten-1-One, 1-(2,6,6-Trimethyl-2-Cyclohexen-1-Yl)-, (2e)- N° CAS : 0024720-09-0 N° EINECS: 246-430-4 N° EU REACH: 01-2120105799-47</p>	<p>Skin Sensitization - Cat. 1B [H317] Acute Toxicity (oral) - Cat. 4 [H302] Environmental Hazard (chronic) - Cat. 2 [H411]</p>

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>= 0.5 < 1.0%

Benzene, 1-Methyl-4-(1-Methylethyl)-
N° CAS : 0000099-87-6
N° EINECS: 202-796-7
N° EU REACH: 01-2120807345-59

Reproductive Toxicity - Cat. 2 [H361]
Acute Toxicity (inhalation) - Cat. 3 [H331]
Aspiration Hazard - Cat. 1 [H304]
Environmental Hazard (chronic) - Cat. 2 [H411]
Flammable Liquid - Cat. 3 [H226]

>= 0.5 < 1.0%

Benzene, 1,1'-Oxybis-
N° CAS : 0000101-84-8
N° EINECS: 202-981-2
N° EU REACH: 01-2119472545-33

Eye Irritation - Cat.2A [H319]
Environmental Hazard (acute) - Cat. 1 [H400]
Environmental Hazard (chronic) - Cat. 3 [H412]

>= 0.1 < 0.5%

Dodecanal
N° CAS : 0000112-54-9
N° EINECS: 203-983-6
N° EU REACH: 01-2119969441-33

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

>= 0.1 < 0.5%

1,6-Octadiene, 7-Methyl-3-Methylene-
N° CAS : 0000123-35-3
N° EINECS: 204-622-5

Aspiration Hazard - Cat. 1 [H304]
Skin Irritation - Cat. 2 [H315]
Eye Irritation - Cat.2A [H319]
Environmental Hazard (acute) - Cat. 1 [H400]
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%

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%

2-Hexen-1-ol, (E)-
N° CAS : 0000928-95-0
N° EINECS: 213-191-2

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

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>= 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

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%

1,3-Cyclohexadiene, 1-Methyl-4-(1-Methylethyl)-
N° CAS : 0000099-86-5
N° EINECS: 202-795-1
N° EU REACH: 01-2120766853-42

Aspiration Hazard - Cat. 1 [H304]
Skin Sensitization - Cat. 1 [H317]
Acute Toxicity (oral) - Cat. 4 [H302]
Environmental Hazard (chronic) - Cat. 2 [H411]
Flammable Liquid - Cat. 3 [H226]

>= 0.1 < 0.5%

2-Oxabicyclo[2.2.2]Octane, 1,3,3-Trimethyl-
N° CAS : 0000470-82-6
N° EINECS: 207-431-5

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

>= 0.1 < 0.5%

Hexanoic Acid, 2-Propenyl Ester
N° CAS : 0000123-68-2
N° EINECS: 204-642-4
N° EU REACH: 01-2119983573-26

Acute Toxicity (oral) - Cat. 3 [H301]
Acute Toxicity (dermal) - Cat. 3 [H311]
Acute Toxicity (inhalation) - Cat. 3 [H331]
Environmental Hazard (acute) - Cat. 1 [H400]
Environmental Hazard (chronic) - Cat. 3 [H412]
Flammable Liquid - Cat. 4 [H227]

>= 0.1 < 0.5%

3-Cyclohexene-1-Carboxaldehyde, 2,4-Dimethyl-
N° CAS : 0068039-49-6
N° ELINCS: --
N° EU REACH: 01-2119982384-28

Skin Sensitization - Cat. 1B [H317]
Skin Irritation - Cat. 2 [H315]
Environmental Hazard (chronic) - Cat. 2 [H411]
Flammable Liquid - Cat. 4 [H227]

>= 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%

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]

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$\geq 0.1 < 0.5\%$
Cyclohexene, 1-Methyl-4-(5-Methyl-1-Methylene-4-Hexen-1-yl)-, (4s)-
N° CAS : 0000495-61-4
N° ELINCS: --

Aspiration Hazard - Cat. 1 [H304]
Skin Sensitization - Cat. 1B [H317]
Acute Toxicity (inhalation) - Cat. 4 [H332]
Skin Irritation - Cat. 2 [H315]
Environmental Hazard (chronic) - Cat. 2 [H411]

$0 < 0.1\%$
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]

$0 < 0.1\%$
2-Buten-1-One, 1-(2,6,6-Trimethyl-3-Cyclohexen-1-yl)-
N° CAS : 0057378-68-4
N° EINECS: 275-156-8

Skin Sensitization - Cat. 1A [H317]
Acute Toxicity (oral) - Cat. 4 [H302]
Skin Irritation - Cat. 2 [H315]
Environmental Hazard (acute) - Cat. 1 [H400]
Environmental Hazard (chronic) - Cat. 1 [H410]

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.

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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:

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.

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According to Regulation HCS 2012

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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

0000101-84-8 : PHENYL ETHER (VAPOR)
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): 1 ppm
Occupational Exposure Limit data. Recommended exposure limit (REL): 7 mg/m³

0000101-84-8 : PHENYL ETHER (VAPOR)
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: 1 ppm
Occupational Exposure Limit data. Permissible exposure limit: 7 mg/m³

0000101-84-8 : PHENYL ETHER (VAPOR)
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): 1 ppm
Occupational Exposure Limit data. Time Weighted Average (TWA): 7 mg/m³

0000101-84-8 : Phenyl ether, vapor fraction
US ACGIH Threshold Limit Values Data
US. ACGIH Threshold Limit Values, as amended
Occupational Exposure Limit data. Short Term Exposure Limit (STEL): 2 ppm
Occupational Exposure Limit data. Time Weighted Average (TWA): 1 ppm

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

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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

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

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Appearance :	LIQUID
Colour :	DARK 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 :	Not available
Flash point (closed cup) :	= 136 Fahrenheit (= 58 Centigrade)
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) :	0.911 - 0.921
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.

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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

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

Eye Irritation - Cat.2A

(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

Aspiration Hazard - Cat. 1

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.

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12.1 Toxicity

Environmental Hazard (acute) - Cat. 1
Environmental Hazard (chronic) - Cat. 2

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

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: 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

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GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

Packing group: III

Sea transport (IMDG-Code)

UN-No: 1169
Proper Shipping Name: EXTRACTS, AROMATIC, LIQUID (TETRAMETHYLOCTAHYDRONAPHTOL)
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 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

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.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

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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.
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.
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
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful 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.

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GHS Safety Data Sheet - US

According to Regulation HCS 2012

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

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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