

# Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

EN

FORM-06-14-01 (V00)

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## MENTHAE PIPERITAE AETHEROLEUM

Publication: 16/04/2022

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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name:	Peppermint oil Menthae piperitae aetheroleum Pepermunt vlogolie Huile essentielle de Menthe poivrée Pfefferminzöl
N° CAS:	8006-90-4
N° EC:	308-770-2

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

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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#### 1.3 Details of the supplier of the safety data sheet

Company:	FRAVER NV Keizershoek 336 2550 Kontich Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

#### 1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance/mixture

##### Classification according to (EC) n° 1272/2008

Skin Irrit. 2	H315
Skin Sens. 1	H317
Aquatic Chronic 2	H411

#### 2.2 Label elements

##### Labelling according to (EC) n° 1272/2008

Hazard pictogram(s):



Signal word(s):

Attention  
Irritant, Harmful to the environment

Hazard statements:

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Additional applicable label elements:	Not applicable.

### 2.3 Other hazards

Hazardous ingredients for labelling: Trans-menthone, Isomenthone, (S)-p-mentha-1,8-diene, Eucalyptol, beta pinene, Pin-2(3)-ene, lin-alool, terpinolene, (S)-2-methyl-5-(A-methylvinyl)cyclohex-2-en-1-one

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Product name:	Peppermint oil
IUPAC name:	3,7-dimethyl-1-oxaspiro[3.5]nonane;3,6-dimethyl-4,5,6,7-tetrahydro-1-benzofuran;5-methyl-2-propan-2-ylcyclohexan-1-ol;5-methyl-2-propan-2-ylcyclohexan-1-one;(5-methyl-2-propan-2-ylcyclohexyl) acetate;5-methyl-2-propan-2-ylidenecyclohexan-1-one
Synonyms:	Mentha piperita oil
N° CAS:	8006-90-4
N° EC:	308-770-2
Molecular Formula:	C <sub>62</sub> H <sub>108</sub> O <sub>7</sub>
Content:	Essential oil obtained by steam distillation from the fresh aerial parts of <i>Mentha × piperita</i> L.

### 3.2 Mixtures

Product name:	L-menthol
IUPAC name:	(1R,2S,5R)-5-methyl-2-propan-2-ylcyclohexan-1-ol
Synonyms:	Levomenthol Menthacamphor
N° CAS:	2216-51-5

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N° EC:	218-690-9
Molecular Formula:	C <sub>10</sub> H <sub>20</sub> O
Content:	25 – 50 Wt%
<b>Product name:</b>	<b>Trans-menthone</b>
IUPAC name:	(2R,5S)-5-methyl-2-(propan-2-yl)cyclohexan-1-one
Synonyms:	Menthone L-Menthone
N° CAS:	89-80-5
N° EC:	201-941-1
Molecular Formula:	C <sub>10</sub> H <sub>18</sub> O
Content:	10 – 25 Wt%
<b>Product name:</b>	<b>L-menthyl acetate</b>
IUPAC name:	[(1R,2S,5R)-5-methyl-2-propan-2-ylcyclohexyl] acetate
Synonyms:	(-)-Menthyl acetate L-p-Menth-3-yl acetate
N° CAS:	2623-23-6
N° EC:	220-076-0
Molecular Formula:	C <sub>12</sub> H <sub>22</sub> O <sub>2</sub>
Content:	2.5 – 10 Wt%
<b>Product name:</b>	<b>Isomenthone</b>
IUPAC name:	(2S,5S)-5-methyl-2-propan-2-ylcyclohexan-1-one
Synonyms:	p-Menthan-3-one Cyclohexanone, 5-methyl-2-(1-methylethyl)-
N° CAS:	491-07-6
N° EC:	207-727-4
Molecular Formula:	C <sub>10</sub> H <sub>18</sub> O
Content:	2.5 – 10 Wt%
<b>Product name:</b>	<b>(S)-p-mentha-1,8-diene</b>
IUPAC name:	(4S)-1-methyl-4-prop-1-en-2-ylcyclohexene
Synonyms:	(S)-Limonene l-Limonene
N° CAS:	5989-54-8
N° EC:	227-815-6
Molecular Formula:	C <sub>10</sub> H <sub>16</sub>
Content:	2.5 – 10 Wt%
<b>Product name:</b>	<b>Menthofuran</b>

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IUPAC name:	3,6-dimethyl-4,5,6,7-tetrahydro-1-benzofuran
Synonyms:	4,5,6,7-Tetrahydro-3,6-dimethylbenzofuran (+/-)-menthofuran
N° CAS:	494-90-6
N° EC:	207-795-5
Molecular Formula:	C <sub>10</sub> H <sub>14</sub> O
Content:	2.5 – 10 Wt%

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first aid measures

General notes:	Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness, place person in the recovery position. Never give anything by mouth.
After inhalation:	Provide fresh air. In case of respiratory tract irritation, consult a physician.
After skin contact:	Wash with plenty of soap and water. Take off immediately all contaminated clothing.
After eye contact:	Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.
After ingestion:	Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May be fatal if swallowed and enters airways.

#### 4.3 Indication of any immediate medical attention and special treatment needed

None.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable extinguishing media:	Water, foam, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media:	Water jet.

#### 5.2 Special hazards arising from the substance/mixture

Not available.

#### 5.3 Advice for firefighters

Surrounding fires:	In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.
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Protection against fire:

Wear self-contained breathing apparatus.

Hazardous combustion products:

Not available.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### For non-emergency personnel

Remove persons to safety. Ventilate affected area.

##### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill: Bunding. Covering of drains.

Advices on how to clean up a spill: Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

Appropriate containment techniques: Use of adsorbent materials.

Other information relating to spills and releases: Place in appropriate containers for disposal.

Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Precautions for safe handling:

Advice on general occupational hygiene: Wash hands after use. Do not eat, drink and smoke in work areas.

Personal protection:

Not available.

Technical protective measures:

Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas.

Handling:

Not available.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage:

In an airtight container. Only packagings which are approved (e.g. acc. to ADR) may be used.

Conditions for safe storage, including any incompatibilities:

At a temperature not exceeding 25 °C.

Storage – away from:

Store protected from light.

#### 7.3 Specific end use(s)

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Active Pharmaceutical Ingredient or Excipient

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

##### Relevant DNELs of components of the mixture

Name of substance	CAS N°	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
L-menthol	2216-51-5	DNEL	132 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
L-menthol	2216-51-5	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
L-menthol	2216-51-5	DNEL	10 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	acute - local effects
L-menthol	2216-51-5	DNEL	19 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
L-menthol	2216-51-5	DNEL	33 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects
L-menthol	2216-51-5	DNEL	9.4 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
L-menthol	2216-51-5	DNEL	9.4 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
(S)-p-mentha-1,8-diene	5989-54-8	DNEL	33.3 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
(S)-p-mentha-1,8-diene	5989-54-8	DNEL	222 µg/cm <sup>2</sup>	human, dermal	worker (industry)	acute - local effects
(S)-p-mentha-1,8-diene	5989-54-8	DNEL	8.33 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects
(S)-p-mentha-1,8-diene	5989-54-8	DNEL	111 µg/cm <sup>2</sup>	human, dermal	consumer (private households)	acute - local effects
(S)-p-mentha-1,8-diene	5989-54-8	DNEL	4.76 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

##### Relevant PNECs of components of the mixture

Name of substance	CAS N°	End-point	Threshold level	Organism	Environmental compartment	Exposure time
L-menthol	2216-51-5	PNEC	156 µg/L	aquatic organisms	water	intermittent release
L-menthol	2216-51-5	PNEC	15.6 µg/L	aquatic organisms	freshwater	short-term (single instance)
L-menthol	2216-51-5	PNEC	1.56 µg/L	aquatic organisms	marine water	short-term (single instance)

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L-menthol	2216-51-5	PNEC	2.37 mg/L	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
L-menthol	2216-51-5	PNEC	289 µg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
L-menthol	2216-51-5	PNEC	28.9 µg/kg	aquatic organisms	marine sediment	short-term (single instance)
L-menthol	2216-51-5	PNEC	48.4 µg/kg	terrestrial organisms	soil	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	5.4 µg/L	aquatic organisms	freshwater	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	0.54 µg/L	aquatic organisms	marine water	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	3.6 µg/L	aquatic organisms	water	intermittent release
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	0.2 mg/L	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	1.322 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	0.132 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(S)-p-mentha-1,8-diene	5989-54-8	PNEC	0.262 mg/kg	terrestrial organisms	soil	short-term (single instance)

### 8.2 Exposure controls

#### Appropriate engineering control

General ventilation.

#### Individual protection measures

Eye/face protection:

Wear eye/face protection. Use safety goggle with side protection.

Skin protection:

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling. Protective clothing against liquid chemicals.

Hand protection:

Chemical protection gloves are suitable, which are tested according to EN 374. Wear protective gloves. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Material: NBR: acrylonitrile-butadiene rubber  
Breakthrough times of the glove material: > 480 minutes (permeation: level 6)  
Material thickness: 0.7 mm

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Full face mask/half mask/quarter mask (EN 136/140). Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Thermal hazards:

Not determined.

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### Environmental exposure control

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	Colourless, pale yellow or pale greenish-yellow liquid.
Odour:	Characteristic odour and taste followed by a sensation of cold.
Odour threshold:	Not available.
pH:	Not determined.
Melting/freezing point:	Not determined.
Initial boiling point:	Not determined.
Boiling range:	Not determined.
Flash point:	78 °C (ASTM D6450 closed cup)
Evaporation rate:	Not determined.
Flammability (solid/gas):	Not relevant, (fluid)
Upper/lower flammability or explosive limits:	Not determined.
Vapour pressure:	Not determined.
Vapour density:	Not available.
Relative density:	0.900 to 0.916
Solubility:	Miscible with ethanol (96 per cent) and with methylene chloride.
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not available.
Viscosity:	Not determined.
Explosive properties:	None.
Oxidising properties:	None.

### 9.2 Other information

Density: 0.9 g/cm<sup>3</sup>

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

### 10.2 Chemical stability

See below "Conditions to avoid".



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### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

### 10.5 Incompatible materials

There is no additional information.

### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity: Shall not be classified as acutely toxic.

#### Acute toxicity estimate (ATE) of components of the mixture

Name of substance	CAS N°	Exposure route	ATE
Menthofuran	494-90-6	oral	500 mg/kg

#### Acute toxicity of components of the mixture

Name of substance	CAS N°	Exposure route	Endpoint	Value	Species
L-menthol	2216-51-5	inhalation: dust/mist	LC <sub>50</sub>	5.289 mg/m <sup>3</sup> /4h	rat

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory/skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity: Shall not be classified as germ cell mutagenic.  
Based on available data, the classification criteria are not met.

Carcinogenicity: Shall not be classified as carcinogenic.  
Based on available data, the classification criteria are not met.

Reproductive toxicity: Shall not be classified as a reproductive toxicant.  
Based on available data, the classification criteria are not met.

Summary of evaluation of the CMR properties: Not available.

STOT-single exposure: Shall not be classified as a specific target organ toxicant (single exposure).  
Based on available data, the classification criteria are not met.

STOT-repeated exposure: Shall not be classified as a specific target organ toxicant (repeated exposure).  
Based on available data, the classification criteria are not met.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Other: Test data are not available for the complete mixture.

### 11.2 Additional information on potential adverse human health effects and symptoms

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Eye contact:	Not available.
Skin contact:	Causes skin irritation. May cause an allergic skin reaction.
Inhalation:	Not available.
Ingestion:	Not available.
Aspiration:	Not available.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Test data are not available for the complete mixture.

##### Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS N°	Endpoint	Value	Species	Exposure time
L-menthol	2216-51-5	LC <sub>50</sub>	15.6 mg/L	fish	96 h
L-menthol	2216-51-5	EC <sub>50</sub>	26.6 mg/L	aquatic invertebrates	48 h
L-menthol	2216-51-5	ErC <sub>50</sub>	21.4 mg/L	algae	72 h

##### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS N°	Endpoint	Value	Species	Exposure time
L-menthol	2216-51-5	EC <sub>50</sub>	37.7 mg/L	aquatic invertebrates	24 h

#### 12.2 Persistence and degradability

Test data are not available for the complete mixture.

##### Degradability of components of the mixture

Name of substance	CAS N°	Process	Degradation rate	Time
L-menthol	2216-51-5	oxygen depletion	64 %	7 d
(S)-p-mentha-1,8-diene	5989-54-8	oxygen depletion	85 %	28 d

#### 12.3 Bioaccumulative potential

Test data are not available for the complete mixture.

##### Bioaccumulative potential of components of the mixture

Name of substance	CAS N°	BCF	Log KOW
L-menthol	2216-51-5	0.5 – 15	3.15 (25 °C)
(S)-p-mentha-1,8-diene	5989-54-8	864.8	4.38 (pH value: 7.2, 37 °C)

#### 12.4 Mobility in soil

Test data are not available for the complete mixture.

#### 12.5 Results of PBT and vPvB assessment

Test data are not available for the complete mixture.

#### 12.6 Other adverse effects

Endocrine disrupting potential: Not listed.

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### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste treatment-relevant information: Dispose of contents/container to an authorized waste treatment facility.

Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings: It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks: Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: TRANSPORT INFORMATION

#### Transport information according to ADR/RID/IMDG/ICAO/IATA

##### 14.1 UN Number

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : 3082

##### 14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Technical name (hazardous ingredients) L-menthyl acetate, (S)-p-mentha-1,8-diene

##### 14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : 9 (environmentally hazardous)

##### 14.4 Packing group

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : III (substance presenting low danger)

##### 14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),  
IATA/ICAO (Air) : Hazardous to the aquatic environment.  
Environmentally hazardous substance (aquatic environment): L-menthyl acetate,  
(S)-p-mentha-1,8-diene

##### 14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

##### 14.7 Transport in bulk according to annex II of Marpol and the IBC Code

The cargo is not intended to be carried in bulk.

##### 14.8 Additional transport information

###### Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Classification code: M6

Environmental hazards: yes (hazardous to the aquatic environment)

Special provisions (SP): 274, 335, 375, 601

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Excepted quantities (EQ): E1

Limited quantities (LQ): 5 L

Transport category (TC): 3

Tunnel restriction code (TRC): E

Hazard identification N°: 90

Emergency Action Code: 3Z

### International Maritime Dangerous Goods Code (IMDG)

Special provisions (SP): 274, 335, 969

Excepted quantities (EQ): E1

Limited quantities (LQ): 5 L

EmS: F-A, S-F

Stowage category: A

### International Civil Aviation Organization (ICAO-IATA/DGR)

Special provisions (SP): A97, A158, A197

Excepted quantities (EQ): E1

Limited quantities (LQ): 30 kg

## SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Irritant Harmful to the environment

Risk phrases:

R38 Irritating to skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 After contact with skin, wash immediately with plenty of soap and water.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S46 If swallowed, seek medical advice immediately and show this container or label.

### 15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### 16.1 Changes since the previous version

Not applicable.

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### 16.2 Abbreviations and acronyms used

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

### 16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

### 16.4 Method of classification in case of mixture

Classification based on the main component.

### 16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

### 16.6 Training advisement

Not available.

### 16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94, as well as Council Directive 76/769/EEC and Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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### 16.8 Department issuing MSDS

Quality Department  
FRAVER NV

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