

# SAFETY DATA SHEET according to Regulation 1907/2006



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Product name: **Effect Microtech CS PRO**  
Creation date: **26.5.2020** · Revision: **7.5.2021** · Version: **1**

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

### 1.1. Product identifier

Product name

**Effect Microtech CS PRO**



[chemius.net/lrGfe](http://chemius.net/lrGfe)

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

Relevant identified uses

Insecticide.

Uses advised against

Use only for the purposes specified in this safety data sheet or on the product label. Any other use is prohibited.

### 1.3. Details of the supplier of the safety data sheet

Supplier

UNICHEM D.O.O.  
Address: Sinja Gorica 2, 1360 Vrhnika, Slovenia  
Phone: +386 1 755 81 50  
Fax: +386 1 755 81 55  
[www.unichem.si](http://www.unichem.si)  
E-mail: [unichem@unichem.si](mailto:unichem@unichem.si)

### 1.4. Emergency telephone number

112

+386 1 755 81 50

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Sens. 1; H317 May cause an allergic skin reaction.

Aquatic Acute 1; H400 Very toxic to aquatic life.

Aquatic Chronic 1; H410 Very toxic to aquatic life with long lasting effects.

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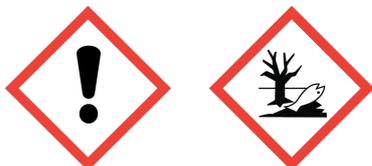
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## 2.2 Label elements

### 2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]



Signal word: **Warning**

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

P102 Keep out of reach of children.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P280 Wear protective gloves/eye protection/face protection.

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 national regulation.

### 2.2.2. Contains:

permethrin (ISO) (CAS: 52645-53-1, EC: 258-067-9, Index: 613-058-00-2)

formaldehyde (CAS: 50-00-0, EC: 200-001-8, Index: 605-001-00-5)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

### 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
piperonyl butoxide	51-03-6 200-076-7 -	8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410		01-2119537431-46
permethrin (ISO)	52645-53-1 258-067-9 613-058-00-2	8	Acute Tox. 4; H302 Skin Sens. 1; H317 Acute Tox. 4; H332 Aquatic Acute 1; H400 [M=1.000] Aquatic Chronic 1; H410 [M=1.000]		-
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	- 918-481-9 -	5-<10	Asp. Tox. 1; H304 EUH066		-

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Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
prallethrin (ISO)	23031-36-9 245-387-9 607-431-00-9	1	Acute Tox. 4; H302 Acute Tox. 3; H331 Aquatic Acute 1; H400 [M=10] Aquatic Chronic 1; H410 [M=10]		-
ammonia [B]	1336-21-6 215-647-6 007-001-01-2	0,1-<1	Skin Corr. 1B; H314 Aquatic Acute 1; H400	STOT SE 3; H335: C ≥ 5 %	01-2119488876-14
methanol	67-56-1 200-659-6 603-001-00-X	<0,1	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H311 Acute Tox. 3; H331 STOT SE 1; H370	STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	01-2119433307-44
formaldehyde [B, D]	50-00-0 200-001-8 605-001-00-5	<0,1	Acute Tox. 3; H301 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Acute Tox. 3; H331 Muta. 2; H341 Carc. 1B; H350	Skin Corr. 1B; H314: C ≥ 25 % Skin Irrit. 2; H315: 5 % ≤ C < 25 % Skin Sens. 1; H317: C ≥ 0,2 % Eye Irrit. 2; H319: 5 % ≤ C < 25 % STOT SE 3; H335: C ≥ 5 %	01-2119488953-20
toluene	108-88-3 203-625-9 601-021-00-3	<0,01	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361d STOT RE 2; H373		-
n-hexane	110-54-3 203-777-6 601-037-00-0	<0,01	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Repr. 2; H361f STOT RE 2; H373 Aquatic Chronic 2; H411	STOT RE 2; H373: C ≥ 5 %	-
benzene	71-43-2 200-753-7 601-020-00-8	<0,001	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Muta. 1B; H340 Carc. 1A; H350 STOT RE 1; H372		-

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- B** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations.
- In Part 3 entries with Note B have a general designation of the following type: "nitric acid ... %".
- In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.
- D** Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3.
- However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words "non-stabilised".

**SECTION 4. FIRST AID MEASURES****4.1. Description of first aid measures**General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention. If breathing is irregular or respiratory arrest occurs provide artificial respiration. Seek medical help immediately.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

Immediately flush eyes with plenty of water while keeping eyelids apart (at least 15 minutes). After initial flushing, remove any contact lenses and continue flushing. If irritation persists, seek professional medical attention.

Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Consult a physician. Show the physician the safety data sheet or label.

**4.2. Most important symptoms and effects, both acute and delayed**Inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

Skin contact

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

Repeated exposure may cause dry skin or cracked skin.

Contact with skin may cause irritation (redness, itching).

Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Ingestion

May cause abdominal discomfort.

May cause nausea/vomiting and diarrhea.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

Full water jet.

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>).

### 5.3. Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8).

##### **Emergency procedures**

Ensure adequate ventilation. Prevent access to unauthorised personnel. Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training.

#### 6.1.2. For emergency responders

During intervention, use personal protective equipment (Section 8).

### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### 6.3.1. For containment

Stem the spill if this does not pose risks.

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Dispose in accordance with applicable regulations (see Section 13).

#### 6.3.3. Other information

See Section 7: safe handling.

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## 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

Ensure adequate ventilation.

##### **Measures to prevent aerosol and dust generation**

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### **Measures to protect the environment**

Avoid release to the environment.

#### 7.1.2. Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Refer to instructions on label and regulations for safety and health at work. Ensure adequate ventilation. Do not eat, drink or smoke while working. Avoid contact with skin and eyes. Do not breathe vapours/mist. Consider measures required in Section 8 of this safety data sheet. Remove contaminated clothes and wash them before reuse.

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

#### 7.2.1. Technical measures and storage conditions

Store in accordance with local regulations. Keep in tightly closed container. Keep in a dry place. Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Protect from direct sunlight. Keep out of the reach of children.

#### 7.2.2. Packaging materials

The original container of producer.

#### 7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

#### 7.2.4. Storage class

Store in accordance with local regulations.

#### 7.2.5. Further information on storage conditions

-

### 7.3. Specific end use(s)

##### **Recommendations**

Insecticide. Use only as directed.

##### **Industrial sector specific solutions**

No specific data available.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

Name (CAS)	Limit values		Short-term exposure limit		Remarks	Biological Tolerance Values
	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>	ml/m <sup>3</sup> (ppm)	mg/m <sup>3</sup>		
Methanol (67-56-1)	200	266	250	333	Sk	
Formaldehyde (50-00-0)	2	2,5	2	2,5	Carc	
Ammonia (1336-21-6)	25	18	35	25		
Toluene (108-88-3)	50	191	100	384	Sk	
Sodium hydroxide (1310-73-2)				2		
n-Hexane (110-54-3)	20	72				
Benzene (71-43-2)	1	3,25			Carc, Sk	
Cycloalkanes ≥C7 (-)		800				

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
piperyonyl butoxide (51-03-6)	Worker	inhalation	long term (systemic effects)	3,875 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Worker	inhalation	short term (systemic effects)	7,75 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Worker	inhalation	long term (local effects)	3,875 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Worker	inhalation	short term (local effects)	3,875 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Worker	dermal	long term (systemic effects)	27,7 mg/kg bw/day	
piperyonyl butoxide (51-03-6)	Worker	dermal	short term (systemic effects)	55,5 mg/kg bw/day	
piperyonyl butoxide (51-03-6)	Worker	dermal	long term (local effects)	0,44 mg/cm <sup>2</sup>	
piperyonyl butoxide (51-03-6)	Worker	dermal	short term (local effects)	0,888 mg/cm <sup>2</sup>	
piperyonyl butoxide (51-03-6)	Consumer	inhalation	long term (systemic effects)	1,94 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Consumer	inhalation	short term (systemic effects)	3,875 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Consumer	inhalation	long term (local effects)	1,94 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Consumer	inhalation	short term (local effects)	1,94 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Consumer	dermal	long term (systemic effects)	13,9 mg/kg bw/day	
piperyonyl butoxide (51-03-6)	Consumer	dermal	short term (systemic effects)	27,8 mg/kg bw/day	
piperyonyl butoxide (51-03-6)	Consumer	dermal	long term (local effects)	0,22 mg/m <sup>3</sup>	
piperyonyl butoxide (51-03-6)	Consumer	dermal	short term (local effects)	0,22 mg/cm <sup>2</sup>	
piperyonyl butoxide (51-03-6)	Consumer	oral	long term (systemic effects)	1,14 mg/kg bw/day	
piperyonyl butoxide (51-03-6)	Consumer	oral	short term (systemic effects)	2,3 mg/kg bw/day	
ammonia (1336-21-6)	Worker	inhalation	long term (systemic effects)	47,6 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Worker	inhalation	short term (systemic effects)	47,6 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Worker	inhalation	long term (local effects)	14 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Worker	inhalation	short term (local effects)	36 mg/m <sup>3</sup>	

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ammonia (1336-21-6)	Worker	dermal	long term (systemic effects)	6,8 mg/kg bw/day	
ammonia (1336-21-6)	Worker	dermal	short term (systemic effects)	6,8 mg/kg bw/day	
ammonia (1336-21-6)	Consumer	inhalation	long term (systemic effects)	23,8 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Consumer	inhalation	short term (systemic effects)	23,8 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Consumer	inhalation	long term (local effects)	2,8 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Consumer	inhalation	short term (local effects)	7,2 mg/m <sup>3</sup>	
ammonia (1336-21-6)	Consumer	dermal	long term (systemic effects)	68 mg/kg bw/day	
ammonia (1336-21-6)	Consumer	dermal	short term (systemic effects)	68 mg/kg bw/day	
ammonia (1336-21-6)	Consumer	oral	long term (systemic effects)	6,8 mg/kg bw/day	
ammonia (1336-21-6)	Consumer	oral	short term (systemic effects)	6,8 mg/kg bw/day	
methanol (67-56-1)	Worker	inhalation	long term (systemic effects)	130 mg/m <sup>3</sup>	
methanol (67-56-1)	Worker	inhalation	short term (systemic effects)	130 mg/m <sup>3</sup>	
methanol (67-56-1)	Worker	inhalation	long term (local effects)	130 mg/m <sup>3</sup>	
methanol (67-56-1)	Worker	inhalation	short term (local effects)	130 mg/m <sup>3</sup>	
methanol (67-56-1)	Worker	dermal	long term (systemic effects)	20 mg/kg bw/day	
methanol (67-56-1)	Worker	dermal	short term (systemic effects)	20 mg/kg bw/day	
methanol (67-56-1)	Consumer	inhalation	long term (systemic effects)	26 mg/m <sup>3</sup>	
methanol (67-56-1)	Consumer	inhalation	short term (systemic effects)	26 mg/m <sup>3</sup>	
methanol (67-56-1)	Consumer	inhalation	long term (local effects)	26 mg/m <sup>3</sup>	
methanol (67-56-1)	Consumer	inhalation	short term (local effects)	26 mg/m <sup>3</sup>	
methanol (67-56-1)	Consumer	dermal	long term (systemic effects)	4 mg/kg bw/day	
methanol (67-56-1)	Consumer	dermal	short term (systemic effects)	4 mg/kg bw/day	
methanol (67-56-1)	Consumer	oral	long term (systemic effects)	4 mg/kg bw/day	
methanol (67-56-1)	Consumer	oral	short term (systemic effects)	4 mg/kg bw/day	
formaldehyde (50-00-0)	Worker	inhalation	long term (systemic effects)	9 mg/m <sup>3</sup>	
formaldehyde (50-00-0)	Worker	inhalation	long term (local effects)	0,375 mg/m <sup>3</sup>	
formaldehyde (50-00-0)	Worker	inhalation	short term (local effects)	0,75 mg/m <sup>3</sup>	
formaldehyde (50-00-0)	Worker	dermal	long term (systemic effects)	240 mg/kg bw/day	
formaldehyde (50-00-0)	Worker	dermal	long term (local effects)	37 µg/cm <sup>2</sup>	
formaldehyde (50-00-0)	Consumer	inhalation	long term (systemic effects)	3,2 mg/m <sup>3</sup>	
formaldehyde (50-00-0)	Consumer	inhalation	long term (local effects)	0,1 mg/m <sup>3</sup>	
formaldehyde (50-00-0)	Consumer	dermal	long term (systemic effects)	102 mg/kg bw/day	
formaldehyde (50-00-0)	Consumer	dermal	long term (local effects)	12 µg/cm <sup>2</sup>	
formaldehyde (50-00-0)	Consumer	oral	long term (systemic effects)	4,1 mg/kg bw/day	

8.1.4. PNEC values

**For components**

Name	Exposure route	Value	Remark
piperyl butoxide (51-03-6)	fresh water	0,001 mg/L	
piperyl butoxide (51-03-6)	marine water	0 mg/L	
piperyl butoxide (51-03-6)	water treatment plant	0,2 mg/L	
piperyl butoxide (51-03-6)	fresh water sediment	0,18 mg/kg	dry weight
piperyl butoxide (51-03-6)	marine water sediment	0,18 mg/kg	dry weight
piperyl butoxide (51-03-6)	soil	0,032 mg/kg	dry weight
permethrin (ISO) (52645-53-1)	fresh water	0,00047 µg/l	
permethrin (ISO) (52645-53-1)	water treatment plant	0,00495 mg/L	
permethrin (ISO) (52645-53-1)	fresh water sediment	0,001 mg/kg	
permethrin (ISO) (52645-53-1)	soil	0,0876 mg/kg	
permethrin (ISO) (52645-53-1)	food chain	16,7 mg/kg	oral
ammonia (1336-21-6)	fresh water	0,001 mg/L	
ammonia (1336-21-6)	water, intermittent release	0,007 mg/L	fresh water
ammonia (1336-21-6)	marine water	0,001 mg/L	
methanol (67-56-1)	fresh water	20,8 mg/L	
methanol (67-56-1)	water, intermittent release	1540 mg/L	fresh water
methanol (67-56-1)	marine water	2,08 mg/L	
methanol (67-56-1)	water treatment plant	100 mg/L	
methanol (67-56-1)	fresh water sediment	77 mg/kg	dry weight
methanol (67-56-1)	marine water sediment	7,7 mg/kg	dry weight
methanol (67-56-1)	soil	100 mg/kg	dry weight
formaldehyde (50-00-0)	fresh water	0,44 mg/L	
formaldehyde (50-00-0)	water, intermittent release	4,44 mg/L	fresh water
formaldehyde (50-00-0)	marine water	0,44 mg/L	
formaldehyde (50-00-0)	water treatment plant	0,19 mg/L	
formaldehyde (50-00-0)	fresh water sediment	2,3 mg/kg	dry weight
formaldehyde (50-00-0)	marine water sediment	2,3 mg/kg	dry weight
formaldehyde (50-00-0)	soil	0,2 mg/kg	dry weight

**8.2. Exposure controls**

8.2.1. Appropriate engineering control

**Substance/mixture related measures to prevent exposure during identified uses**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Observe normal precautions that apply for handling with chemicals. Do not breathe vapours/aerosols. Avoid contact with eyes and skin.

**Organisational measures to prevent exposure**

Do not eat, drink or smoke while working.

**Technical measures to prevent exposure**

Keep away from food, drink and animal feeding stuffs. Provide good ventilation and local exhaust in areas with increased concentration.

8.2.2. Personal protective equipment

**Eye and face protection**

Safety goggles (EN 166).

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## Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

## Appropriate materials

Material	Thickness	Penetration Time	Remark
Nitrile	> 0,4 mm	> 30 min	
Butyl rubber	> 0,7 mm	> 480 min	

## Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Protective work clothing resistant to liquid chemicals (EN 14605).

## Respiratory protection

Not needed under normal use and adequate ventilation. At elevated concentrations of vapours/aerosols in the air wear a mask (EN 140) with filter A2-P2 (EN 14387). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

## Thermal hazards

None under normal use conditions.

### 8.2.3. Environmental exposure controls

#### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

- <b>Physical state:</b>	liquid
- <b>Colour:</b>	white
- <b>Odour:</b>	characteristic

### Important health, safety and environmental information

- <b>pH</b>	No information.
- <b>Melting point/freezing point</b>	No information.
- <b>Initial boiling point/boiling range</b>	No information.
- <b>Flash point</b>	No information.
- <b>Evaporation rate</b>	No information.
- <b>Flammability (solid, gas)</b>	No information.
- <b>Explosion limits (vol%)</b>	No information.
- <b>Vapour pressure</b>	No information.
- <b>Vapour density</b>	No information.
- <b>Density</b>	<b>Density:</b> 0,9 – 1,05 g/cm <sup>3</sup>
- <b>Solubility</b>	<b>Water:</b> Soluble
- <b>Partition coefficient</b>	No information.
- <b>Auto-ignition temperature</b>	No information.
- <b>Decomposition temperature</b>	No information.
- <b>Viscosity</b>	No information.
- <b>Explosive properties</b>	No information.
- <b>Oxidising properties</b>	No information.

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## 9.2. Other information

-	Remarks:	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3. Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

### 10.4. Conditions to avoid

Do not expose to heat and direct sunlight.

### 10.5. Incompatible materials

Not known.

### 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

(a) Acute toxicity

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Name	Exposure route	Type	Species	Time	Value	Method	Remark
piperonyl butoxide (51-03-6)	oral	LD <sub>50</sub>	rat		4570 mg/kg	OECD 401	
piperonyl butoxide (51-03-6)	dermal	LD <sub>50</sub>	rabbit		> 2000 mg/kg	OECD 402	
piperonyl butoxide (51-03-6)	inhalation	LC <sub>50</sub>	rat	4 h	> 5,9 mg/l	OECD 403	
permethrin (ISO) (52645-53-1)	oral	LD <sub>50</sub>	rat		554 mg/kg bw	OECD 401	
permethrin (ISO) (52645-53-1)	dermal	LD <sub>50</sub>	rat		> 2000 mg/kg	OECD 402	
permethrin (ISO) (52645-53-1)	inhalation (aerosol)	LC <sub>50</sub>	rat	4 h	> 4,638 mg/l	OECD 403	
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (-)	oral	LD <sub>50</sub>	rat		5000 mg/kg		
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (-)	dermal	LD <sub>50</sub>	rabbit		3160 mg/kg		
prallethrin (ISO) (23031-36-9)	oral	LD <sub>50</sub>	rat		460 mg/kg		
prallethrin (ISO) (23031-36-9)	dermal	LD <sub>50</sub>	rat		> 2000 mg/kg		
prallethrin (ISO) (23031-36-9)	inhalation	LC <sub>50</sub>	rat		> 0,465 mg/l		
methanol (67-56-1)	oral	LD <sub>50</sub>	rat		5628 mg/kg		
methanol (67-56-1)	dermal	LD <sub>50</sub>	rabbit		15800 mg/kg		
methanol (67-56-1)	inhalation	LC <sub>50</sub>	rat	4 h	64000 ppm		
formaldehyde (50-00-0)	Inhalation (gases)	LC <sub>50</sub>	rat	4 h	0,58 mg/l		
formaldehyde (50-00-0)	dermal	LD <sub>50</sub>	rabbit		270 mg/kg		
formaldehyde (50-00-0)	oral	LD <sub>50</sub>	rat		> 200 mg/kg		

## (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
permethrin (ISO) (52645-53-1)	rabbit		Non-irritant.	OECD 404	
ammonia (1336-21-6)	rabbit		Corrosive.	OECD 404	

## (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
permethrin (ISO) (52645-53-1)	rabbit		No irritant effect.	OECD 405	
ammonia (1336-21-6)	rabbit		It causes serious eye damage.		

## (d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
ammonia (1336-21-6)	-	guinea pig		Non sensitising.		

**Additional information:** May cause an allergic skin reaction.

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## (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
permethrin (ISO) (52645-53-1)	in-vitro mutagenicity			Negative.	OECD 473	
permethrin (ISO) (52645-53-1)	in-vivo mutagenicity			Not mutagenic.	OECD 475	
ammonia (1336-21-6)	in-vitro mutagenicity			Negative.	OECD 471	
ammonia (1336-21-6)	in-vivo mutagenicity	mouse		Negative.	OECD 474	

## (f) Carcinogenicity

Name	Exposure route	Type	Species	Time	Value	Result	Method	Remark
permethrin (ISO) (52645-53-1)	oral	NOAEL	rat		75 mg/kg bw/day	No effect	OECD 453	

## (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
permethrin (ISO) (52645-53-1)	Developmental toxicity	NOAEL	rabbit		500 mg/kg bw/day	No effect	OECD 414	
permethrin (ISO) (52645-53-1)	Effects on fertility	NOAEL	rat		500 mg/kg bw/day	No effect	OECD 416	
permethrin (ISO) (52645-53-1)	Maternal toxicity	NOAEL	rabbit		250 mg/kg bw/day	No effect	OECD 414	
ammonia (1336-21-6)	Effects on fertility	NOAEL	rat		408 mg/kg bw/day	Negative.	OECD 422	oral

## Summary of evaluation of the CMR properties

No information.

## (h) STOT-single exposure

No information.

## (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
permethrin (ISO) (52645-53-1)	oral	NOAEL	rat	90 days		8,6 mg/kg bw/day	No effect.	OECD 408	
permethrin (ISO) (52645-53-1)	dermal	NOAEL	rat	13 weeks		1000 mg/kg bw/day		OECD 411	6 h per day, 5 days per week
permethrin (ISO) (52645-53-1)	inhalation (aerosol)	NOAEL	rat	13 weeks		0,2201 mg/L	No effect.	OECD 413	6 h per day, 5 days per week
ammonia (1336-21-6)	inhalation	NOAEL	rat (male)	50 days		0,035 mg/L			

**Additional information:** Repeated exposure may cause skin dryness or cracking.

## (j) Aspiration hazard

No information.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

##### **For components**

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Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
piperonyl butoxide (51-03-6)	LC <sub>50</sub>	3,94 mg/L	96 h	fish	<i>Cyprinodon variegatus</i>	OECD 203	
	EC <sub>50</sub>	0,51 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC <sub>50</sub>	3,89 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>	OECD 201	
permethrin (ISO) (52645-53-1)	LC <sub>50</sub>	8,9 µg/l	96 h	fish	<i>Poecilia reticulata</i>	OECD 203	
	LC <sub>50</sub>	0,145 mg/L	96 h	fish	<i>Cyprinus carpio</i>	OECD 203	
	EC <sub>50</sub>	0,00127 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC <sub>50</sub>	> 1,13 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	NOEC	> 0,0131 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	
	EC <sub>10</sub>	0,0023 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>		
	EC <sub>50</sub>	> 1000 mg/L	3 h	microorganisms	Activated sludge	OECD 209	
	NOEC	0,00495 mg/L	3 h	microorganisms		OECD 209	
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (-)	LC <sub>50</sub>	10 – 100 mg/L		bacteria			
	LD <sub>50</sub>	0,163 µg/l		bee	<i>Apis mellifera</i>		
prallethrin (ISO) (23031-36-9)	LC <sub>50</sub>	0,0176 mg/L	96 h	fish	<i>Brachydanio rerio</i>		
	EC <sub>50</sub>	0,019 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	EC <sub>50</sub>	4,9 mg/L	72 h	algae	<i>Scenedesmus subspicatus</i>		
ammonia (1336-21-6)	LC <sub>50</sub>	0,89 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	LC <sub>50</sub>	101 mg/L	48 h	crustacea	<i>Daphnia magna</i>	ASTM E729-80	
	EC <sub>50</sub>	2700 mg/L	18 days	algae	<i>Chlorella vulgaris</i>		
methanol (67-56-1)	LC <sub>50</sub>	15400 mg/L	96 h	fish	<i>Lepomis macrochirus</i>		
	EC <sub>50</sub>	> 10000 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	IC <sub>5</sub>	8000 mg/L	8 days	algae	<i>Scenedesmus quadricauda</i>		
formaldehyde (50-00-0)	LC <sub>50</sub>	41 mg/L	96 h	fish	<i>Brachydanio rerio</i>		
	EC <sub>50</sub>	42 mg/L	24 h	crustacea	<i>Daphnia magna</i>	DIN 38412-11	
	EC <sub>50</sub>	3,48 – 4,89 mg/L	72 h	algae			

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## 12.1.2. Chronic (long-term) toxicity

### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
piperonyl butoxide (51-03-6)	NOEC	0,053 mg/l		fish	<i>Cyprinodon variegatus</i>	OECD 210	
	NOEC	0,03 mg/l	21 days	crustacea	<i>Daphnia magna</i>		
	NOEC	0,824 mg/l		algae	<i>Selenastrum capricornutum</i>	OECD 201	
permethrin (ISO) (52645-53-1)	NOEC	0,00041 mg/l	35 days	fish	<i>Danio rerio</i>	OECD 210	
	NOEC	0,0047 µg/L	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	
	EC50	126 mg/kg	14 days	Soil macro-organisms	Lampito mauritii		
prallethrin (ISO) (23031-36-9)	NOEC	2,6 mg/l		algae	<i>Scenedesmus subspicatus</i>		
ammonia (1336-21-6)	LOEC	0,022 mg/l	73 days	fish	<i>Oncorhynchus mykiss</i>		
	NOEC	0,79 mg/l	96 h	crustacea	<i>Daphnia magna</i>	EPA OPPTS 850.1300	

## 12.2. Persistence and degradability

### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

#### For components

Substance (CAS Nr.)	Environment	Type / Method	Half Time	Evaluation	Method	Remark
permethrin (ISO) (52645-53-1)	Air	photodegradation	0,701 days		half-life	Concentration of OH radicals: 500,000 / cm <sup>3</sup>
permethrin (ISO) (52645-53-1)	water		> 365 days		half-life	pH < 7
permethrin (ISO) (52645-53-1)	water		> 365 days		half-life	pH 7
permethrin (ISO) (52645-53-1)	water		35 – 42 days		half-life	pH > 7
permethrin (ISO) (52645-53-1)	Soil		11 – 21,2 days		half-life	

### 12.2.2. Biodegradation

#### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
piperonyl butoxide (51-03-6)	-			Not rapidly biodegradable.		
permethrin (ISO) (52645-53-1)	Biodegradation in water	5 %	28 days		OECD 301 B	
ammonia (1336-21-6)	-			readily biodegradable		
methanol (67-56-1)	-			readily biodegradable		
formaldehyde (50-00-0)	-			readily biodegradable	OECD 301 D	

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## 12.3. Bioaccumulative potential

### 12.3.1. Partition coefficient

#### For components

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
piperonyl butoxide (51-03-6)	Octanol-water (log Pow)	4,8		6,5		OECD 117
permethrin (ISO) (52645-53-1)	Octanol-water (log Pow)	4,67	25 °C			
prallethrin (ISO) (23031-36-9)	Octanol-water (log Pow)	> 2,78				
ammonia (1336-21-6)	Octanol-water (log Pow)	-0,64				
methanol (67-56-1)	Octanol-water (log Pow)	-0,77				
formaldehyde (50-00-0)	Octanol-water (log Pow)	0,35	25 °C			

### 12.3.2. Bioconcentration factor (BCF)

#### For components

Substance (CAS Nr.)	species	Organism	Value	Duration	Evaluation	Method	Remark
piperonyl butoxide (51-03-6)	BCF		91 – 380			OECD 305 E	
permethrin (ISO) (52645-53-1)	BCF	Cyprinodon variegatus	290 – 620				
permethrin (ISO) (52645-53-1)	BCF	fish	< 2000				
prallethrin (ISO) (23031-36-9)	BCF		46				

## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

#### For components

Substance (CAS Nr.)	Type	Criterion	Value	Evaluation	Method	Remark
permethrin (ISO) (52645-53-1)	Soil	Henry constant (H)	0,0046 – 0,045 Pa.m <sup>3</sup> / mol			
prallethrin (ISO) (23031-36-9)	Soil	log KOC	3,12			

## 12.5. Results of PBT and vPvB assessment

No evaluation.

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

#### For product

Very toxic to aquatic life with long lasting effects.

Do not allow to reach ground water, water courses or sewage system.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

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## Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities.

### 13.1.2. Waste treatment-relevant information

Disposal in accordance with the Rules on the management of waste.

### 13.1.3. Sewage disposal-relevant information

Do not discharge into drains.

### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 3082

### 14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (permethrin (ISO))

### 14.3. Transport hazard class(es)

9

### 14.4. Packing group

III

### 14.5. Environmental hazards

Additional labeling: ENVIRONMENTALLY HAZARDOUS

IMDG: MARINE POLLUTANT

### 14.6. Special precautions for user

#### Limited quantities

5 L

#### Tunnel restriction code

(-)

#### IMDG EmS

F-A, S-F

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

Goods may not be carried in bulk in bulk containers, containers or vehicles.



## SECTION 15. REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

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## 15.1.2. Special instructions

-  
Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

## 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer

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MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

-

## List of relevant H phrases

H225 Highly flammable liquid and vapour.  
H301 Toxic if swallowed.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H311 Toxic in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects .  
H341 Suspected of causing genetic defects .  
H350 May cause cancer .  
H361d Suspected of damaging the unborn child.  
H361f Suspected of damaging fertility.  
H370 Causes damage to organs.  
H372 Causes damage to organs through prolonged or repeated exposure .  
H373 May cause damage to organs through prolonged or repeated exposure .  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.

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- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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