CAPTOR

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 07/03/2022 Revision date: 04/04/2024 Supersedes version of: 07/03/2022 Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : CAPTOR
Product code : 108106
Type of product : Biocidal products (e.g. Disinfectants, pest control)
Product identification : Aerosol

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

1.2.1. Relevant identified uses

Main use category : Professional use,Industrial use
Function or use category : Biocidal products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
IPC
10 Quai Malbert, 29200, BREST, FRANCE.
Tel. : +33 (0)2 98 43 45 44.
Fax : +33 (0)2 98 44 22 53
ipc@groupe-ipc.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	NHS 111/NHS 24/NHS Direct		111 0845 4647	or call a doctor

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1	H222;H229
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms (CLP) :

GHS02 GHS07 GHS09

Signal word (CLP) : Danger

Contains : permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate; propan-2-ol; Hydrocarbons C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics; d-limonene; citral; Methylheptenone

Hazard statements (CLP) : H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P260 - Do not breathe spray.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P391 - Collect spillage.
P403 - Store in a well-ventilated place.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

Extra phrases : Not to be used for any purpose other than the one the product was designed for.
Seek medical attention if ill effect develops.
For professional use only.
Contains :
Perméthrine (ISO) (cas n° 52645-53-1) : 0.26% m/m - 2.6 g/kg.
D-Tetramethrin (cas n° 1166-46-7) : 0.19% m/m - 1.9 g/kg.
1R-trans phenothrin (cas n° 26046-85-5) : 0.10% m/m - 1.0 g/kg.
Formulation Type: Aerosol Generator Ready (AE).
TP18.
Packaging must be disposed of as hazardous waste under the sole responsability of the holder of the waste. Do not empty into drains or in water.
Expiry date : 2 years.
If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Please contact your nearest poison treatment centre.
Evacuate any body cold-blooded and warm-blooded food of the area being treated.

2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-Butane (contenant <0.1% butadiène) (Propellant gas (Aerosol))	CAS-No.: 106-97-8 EC-No.: 203-448-7 EC Index-No.: 601-004-00-0 REACH-no: 01-2119474691-32	40 – 60	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
propane (Propellant gas (Aerosol))	CAS-No.: 74-98-6 EC-No.: 200-827-9 EC Index-No.: 601-003-00-5 REACH-no: 01-2119486944-21	20 – 30	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Isobutane (containing < 0,1 % butadiene) (Propellant gas (Aerosol)) (Note C)(Note U)	CAS-No.: 75-28-5 EC-No.: 200-857-2 EC Index-No.: 601-004-00-0 REACH-no: 01-2119485395-27	10 – 20	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics substance with national workplace exposure limit(s) (FR)	EC-No.: 919-857-5 REACH-no: 01-2119463258-33	5 – 8	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304 EUH066
propan-2-ol	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558-25	5 – 8	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Hydrocarbons C7, n-alkanes, isoalkanes, cyclics substance with national workplace exposure limit(s) (FR)	EC-No.: 927-510-4 REACH-no: 01-2119475515-33	2 – 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Hydrocarbons, C6, isoalkanes, <5% n-hexane substance with national workplace exposure limit(s) (FR)	CAS-No.: 64742-49-0 EC-No.: 931-254-9 REACH-no: 01-2119484651-34	2 – 5	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate	CAS-No.: 52645-53-1 EC-No.: 258-067-9 EC Index-No.: 613-058-00-2	0.1 – 0.5	Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
D-Tetramethrin	CAS-No.: 1166-46-7 EC-No.: 214-619-0 EC Index-No.: 607-728-00-3	0.1 – 0.5	Carc. 2, H351 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) STOT SE 2, H371 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)
d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 EC Index-No.: 601-096-00-2 REACH-no: 01-2119529223-47	0.1 – 0.5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
1R-trans-Phenothrin	CAS-No.: 26046-85-5 EC-No.: 247-431-2	< 0.1	Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)
citral	CAS-No.: 5392-40-5 EC-No.: 226-394-6 EC Index-No.: 605-019-00-3	< 0.1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Methylheptenone	CAS-No.: 409-02-9 EC-No.: 206-990-2	< 0.1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317

Comments : Calculation of aerosol labeling excluding gas

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note U: When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:. Press. Gas (Comp.), Press. Gas (Liq.), Press. Gas (Ref. Liq.), Press. Gas (Diss.). Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.
Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately. If you feel unwell, seek medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Seek medical attention if ill effect or irritation develops.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately. Rinse mouth. Do NOT induce vomiting. Allow the victim to rest.

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

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after inhalation : Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : Eye irritation.
Symptoms/effects after ingestion : Risk of lung oedema. Ingestion unlikely.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable aerosol.
Explosion hazard : Pressurised container: May burst if heated.
Reactivity in case of fire : Prevent fire fighting water from entering the environment.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Exercise caution when fighting any chemical fire. During a fire, projections ignited aerosol that burst under excessive pressure have to be controlled. To avoid overpressure, cool aerosols with water. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage. Measures to take in the case of crushing or piercing aerosols, causing the leaking of products contained in aerosols. Ventilate area. Do not smoke. Remove ignition sources. Provide local exhaust or general room ventilation. Evacuate and limit access. Use special care to avoid static electric charges.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Do not touch spilled material. Evacuate area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so. Provide adequate ventilation. Do not inhale vapour.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up	:	Mechanically recover the product. Clean spills promptly. Collect the residue by means of a non-combustible absorbent material.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Not to be used for any purpose other than the one the product was designed for. Do not breathe gas, fumes, vapour or spray. During the handling of a pallet, you have to take all precaution to avoid a start of a n accident perforation of the aerosol by a fork-lift truck. During the load and unloading of the vehicle, you have to take all the precaution to avoid a fall a aerosol. Do not spray tha aerosol neither close nor towards a flame, a white-hot body, an electrical appliance in runing, DO NOT SMOCKING. Container under pressure. Do not drill or burn even after use. Store and handle as though always a serious potential fire/explosion and health hazard exists.
Hygiene measures	:	Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Keep in a cool, well-ventilated place away from heat. Proper grounding procedures to avoid static electricity should be followed. Use grounded electrical/mechanical equipment.
Storage conditions	:	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Recommendations applicable to warehouses and reserves which are stored aerosols. It is recommended to de-normalize aerosols in stock . The " aerosol " or area must be set with a wire mesh of mesh max 5cm, forming a cage or using walls to avoid splashing the aerosols may ignite rest of the stock . Do not smoke. To reduce the risk of falling, should position the pallet closest to the ground. If the packages are stacked, it should ensure that those lower layers do not crash (risk of leakage through compression). It is recommended : - Ventilate the premises and not store any sprays near heat sources, including sunlight, sparks and open flames - To use the procedure of fire when working . Store in a dry, well ventilated place .
Packaging materials	:	Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

propan-2-ol (67-63-0)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	999 mg/m³
	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
	500 ppm

N-Butane (contenant <0.1% butadiène) (106-97-8)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA)	1450 mg/m³
	600 ppm
WEL STEL (OEL STEL)	1810 mg/m³
	750 ppm

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment.

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Safety glasses

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Skin and body protection:
Skin protection appropriate to the conditions of use should be provided

Hand protection:
Protective gloves. Since the product consists of several substances, the durability of the glove material cannot be estimated and needs to be tested before use. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Gloves	Nitrile rubber (NBR)	6 (> 480 minutes)			EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	colourless to slightly yellow.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Extremely flammable aerosol.
Explosive properties	:	Pressurised container: May burst if heated. Pressurised container: May burst if heated.
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	< 0 °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not applicable
Viscosity, kinematic	:	< 20.5 mm²/s (PA 40°C)
Solubility	:	Not available
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	0.74 (PA)
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients	:	99 %

9.2.2. Other safety characteristics

VOC content	:	99.2 % (575.7 g/L)

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Extremely high or low temperatures. Do not expose to temperatures exceeding 50 °C/ 122 °F.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

1R-trans-Phenothrin (26046-85-5)	
LD50 oral rat	5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.3 mg/l/4h

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate (52645-53-1)	
LD50 oral rat	664 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 4.638 mg/l/4h

D-Tetramethrin (1166-46-7)	
LD50 oral rat	1050 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 1.18 mg/l

propan-2-ol (67-63-0)	
LD50 oral rat	5840 mg/kg
LD50 dermal rabbit	16400 mg/kg
LC50 Inhalation - Rat	> 25000 mg/l

Hydrocarbons C7, n-alkanes, isoalkanes, cyclics	
LD50 oral rat	> 5840 mg/kg
LD50 dermal rat	> 2920 mg/kg

Hydrocarbons C7, n-alkanes, isoalkanes, cyclics	
LC50 Inhalation - Rat	> 23.3 mg/l/4h

Hydrocarbons, C6, isoalkanes, <5% n-hexane (64742-49-0)	
LD50 oral rat	16750 mg/kg
LD50 dermal rabbit	> 3350 mg/kg
LC50 Inhalation - Rat	> 259354 mg/m³

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3160 mg/kg
LC50 Inhalation - Rat	> 4951 mg/m³ 4 H

Skin corrosion/irritation : Causes skin irritation.
pH: Not applicable

Additional information : Based on available data, the classification criteria are not met

Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable

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

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : May cause drowsiness or dizziness.

Additional information : Based on available data, the classification criteria are not met

D-Tetramethrin (1166-46-7)	
STOT-single exposure	May cause damage to organs (nervous system) (inhalation).

propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons C7, n-alkanes, isoalkanes, cyclics	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons, C6, isoalkanes, <5% n-hexane (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Additional information : Based on available data, the classification criteria are not met

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

Additional information : Based on available data, the classification criteria are not met

ICAPTOR	
Product identification	Aerosol
Viscosity, kinematic	< 20.5 mm²/s (PA 40°C)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Viscosity, kinematic	0.8 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and symptoms : Prolonged or repeated contact may cause dermatitis by loss of natural skin fats,Long-term exposure at high concentration may cause :Headache,Giddiness,Eye irritation,May cause respiratory irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long–term (chronic) : Very toxic to aquatic life with long lasting effects.

1R-trans-Phenothrin (26046-85-5)	
LC50 - Fish [1]	0.0559 mg/l
EC50 - Crustacea [1]	0.0046 mg/l
EC50 72h - Algae [1]	> 5 mg/l
NOEC chronic crustacea	0.00047 mg/l

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate (52645-53-1)	
LC50 - Fish [1]	0.0089 mg/l guppy, poecilia reticulata 96 hours
EC50 - Crustacea [1]	0.32 mg/l daphnia magna 24 hours
EC50 72h - Algae [1]	> 0.011 mg/l algae scenedesmus subspicatus 72 h

D-Tetramethrin (1166-46-7)	
LC50 - Fish [1]	0.01 mg/l
EC50 - Crustacea [1]	0.11 mg/l

propan-2-ol (67-63-0)	
LC50 - Fish [1]	9640 mg/l Pimephales promelas
EC50 - Crustacea [1]	> 10000 mg/l Daphnia magna

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
LC50 - Fish [1]	> 1000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l
EC50 72h - Algae [1]	> 1000 mg/l
NOEC chronic fish	0.131 mg/l
NOEC chronic crustacea	0.23 mg/l

12.2. Persistence and degradability

CAPTOR	
Persistence and degradability	Rapidly degradable

1R-trans-Phenothrin (26046-85-5)	
Persistence and degradability	Not rapidly degradable

permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate (52645-53-1)	
Persistence and degradability	Not rapidly degradable

D-Tetramethrin (1166-46-7)	
Persistence and degradability	Not biodegradable.

propan-2-ol (67-63-0)	
Persistence and degradability	Readily biodegradable.

Hydrocarbons C7, n-alkanes, isoalkanes, cyclics	
Persistence and degradability	Readily biodegradable.
Biodegradation	98 %

Hydrocarbons, C6, isoalkanes, <5% n-hexane (64742-49-0)	
Persistence and degradability	Readily biodegradable.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Persistence and degradability	Readily biodegradable.
Biodegradation	80 % OCDE301F

d-limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable

citral (5392-40-5)	
Persistence and degradability	Rapidly degradable

Methylheptenone (409-02-9)	
Persistence and degradability	Rapidly degradable

N-Butane (contenant <0.1% butadiène) (106-97-8)	
Persistence and degradability	Half-life time in water: <2.6 d Half-life time in air: 3.2 d.

propane (74-98-6)	
Persistence and degradability	Rapidly degradable
Biodegradation	< 60 % 28d

Isobutane (containing < 0,1 % butadiene) (75-28-5)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

1R-trans-Phenothrin (26046-85-5)	
Partition coefficient n-octanol/water (Log Kow)	6.8

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Partition coefficient n-octanol/water (Log Pow)	5 – 6.7

N-Butane (contenant <0.1% butadiène) (106-97-8)	
Bioaccumulative potential	Not potentially bioaccumulable.

propane (74-98-6)	
Bioaccumulative potential	No information available.

12.4. Mobility in soil

D-Tetramethrin (1166-46-7)	
Surface tension	63.1 mN/m 21°C

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	
Surface tension	0.0237 mN/m 25°C

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Dispose in a safe manner in accordance with local/national regulations. Container under pressure. Do not drill or burn even after use.
Additional information : Do not re-use empty containers.
Ecological information : Avoid release to the environment.
HP Code : HP3 - "Flammable:"
– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;
– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;
– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;
– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;
– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;
– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.
HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1950	UN 1950	UN 1950	UN 1950	UN 1950

ADR	IMDG	IATA	ADN	RID
14.2. UN proper shipping name				
AEROSOLS	AEROSOLS	Aerosols, flammable	AEROSOLS	AEROSOLS
Transport document description				
UN 1950 AEROSOLS, 2.1, (D), ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1950 Aerosols, flammable, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Special transport precautions :

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1l
Excepted quantities (ADR) : E0
Packing instructions (ADR) : P207
Special packing provisions (ADR) : PP87, RR6, L2
Mixed packing provisions (ADR) : MP9
Transport category (ADR) : 2
Special provisions for carriage - Packages (ADR) : V14
Special provisions for carriage - Loading, unloading and handling (ADR) : CV9, CV12
Special provisions for carriage - Operation (ADR) : S2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
Limited quantities (IMDG) : SP277
Excepted quantities (IMDG) : E0
Packing instructions (IMDG) : P207, LP200
Special packing provisions (IMDG) : PP87, L2
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Stowage category (IMDG) : None
Stowage and handling (IMDG) : SW1, SW22
Segregation (IMDG) : SG69

Air transport

No data available

Inland waterway transport
No data available

Rail transport
No data available

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	**Applicable on**
3(a)	CAPTOR ; propan-2-ol ; Hydrocarbons C7, n-alkanes, isoalkanes, cyclics ; Hydrocarbons, C6, isoalkanes, <5% n-hexane ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ; d-limonene
3(b)	CAPTOR ; permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate ; propan-2-ol ; Hydrocarbons C7, n-alkanes, isoalkanes, cyclics ; Hydrocarbons, C6, isoalkanes, <5% n-hexane ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ; d-limonene ; citral
3(c)	CAPTOR; 1R-trans-Phenothrin ; permethrin (ISO); m-phenoxybenzyl 3-(2,2-dichorovinyl)-2,2-dimethylcyclopro panecarboxylate ; Hydrocarbons C7, n-alkanes, isoalkanes, cyclics ; Hydrocarbons, C6, isoalkanes, <5% n-hexane ; d-limonene
40.	propan-2-ol ; Hydrocarbons C7, n-alkanes, isoalkanes, cyclics ; Hydrocarbons, C6, isoalkanes, <5% n-hexane ; Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ; d-limonene ; Methylheptenone ; N-Butane (contenant <0.1% butadiène) ; propane ; Isobutane (containing < 0,1 % butadiene)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Permethrin (52645-53-1)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

VOC Directive (2004/42)

VOC content : 99.2 % (575.7 g/L)

Biocide Regulation (528/2012)

Contains substance(s) listed on the Biocidal Products list (Regulation EU 528/2012 concerning the making available on the market and use of biocidal products)

Type of product (Biocide) : 18 - Insecticides, acaricides and products to control other arthropods
Authorisation number :

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Revision date	Modified	
	Segregation (IMDG)	Added	
	Stowage and handling (IMDG)	Added	
	Packing instructions (ADR)	Modified	
	Special provisions (IMDG)	Modified	
	Comments (below composition)	Added	
	Flammability (solid, gas)	Added	
	Type of product	Added	
1.1	UFI on SDS 1.1	Added	
2.1	Adverse physicochemical, human health and environmental effects	Added	
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Extra phrases	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	EUH-statements	Removed	
3	Composition/information on ingredients	Modified	
4.1	First-aid measures after inhalation	Modified	
4.1	First-aid measures after ingestion	Modified	
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after skin contact	Modified	
4.1	First-aid measures general	Added	
4.2	Symptoms/effects after inhalation	Modified	
4.2	Symptoms/effects after ingestion	Modified	
4.2	Symptoms/effects after eye contact	Modified	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
4.2	Symptoms/effects after skin contact	Modified	
4.2	Symptoms/effects	Added	
4.3	Other medical advice or treatment	Modified	
5.1	Suitable extinguishing media	Modified	
5.2	Hazardous decomposition products in case of fire	Modified	
5.3	Protection during firefighting	Added	
5.3	Firefighting instructions	Modified	
5.3	Precautionary measures fire	Removed	
6.1	Protective equipment	Modified	
6.1	Emergency procedures	Added	
6.1	Protective equipment	Added	
6.1	General measures	Modified	
6.1	Emergency procedures	Modified	
6.2	Environmental precautions	Modified	
6.3	Other information	Added	
6.3	For containment	Added	
6.3	Methods for cleaning up	Modified	
6.4	Reference to other sections (8, 13)	Modified	
7.1	Additional hazards when processed	Added	
7.1	Hygiene measures	Modified	
7.1	Precautions for safe handling	Modified	
7.2	Technical measures	Modified	
7.2	Packaging materials	Added	
7.2	Storage conditions	Modified	
7.3	Specific end uses	Removed	
8.2	Environmental exposure controls	Added	
8.2	Respiratory protection	Modified	
8.2	Personal protective equipment	Added	
8.2	Hand protection	Modified	
8.2	Skin and body protection	Modified	
8.2	Other information	Removed	
9.1	Melting point	Added	
9.1	Explosive properties	Modified	
9.1	Viscosity, kinematic	Added	
9.2	VOC content	Modified	
10.1	Reactivity	Modified	
10.2	Chemical stability	Modified	

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
10.3	Possibility of hazardous reactions	Modified	
10.4	Conditions to avoid	Modified	
10.5	Incompatible materials	Modified	
10.6	Hazardous decomposition products	Modified	
12.1	Ecology - general	Modified	
13.1	Waste treatment methods	Added	
13.1	Waste disposal recommendations	Modified	
13.1	Sewage disposal recommendations	Added	
13.1	Additional information	Added	
13.1	Regional waste regulation	Added	
14.6	Packing instructions (IMDG)	Modified	
15.1	REACH Annex XVII	Added	
15.1	Other information, restriction and prohibition regulations	Removed	
15.1	VOC content	Modified	
16	Abbreviations and acronyms	Added	

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

Abbreviations and acronyms:	
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : Imp. DL4.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.

Full text of H- and EUH-statements:	
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H371	May cause damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.