

SAFETY DATA SHEET

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

- 1.1. Product identifier:**
PROTECT BARRIER insect killer aerosol
- 1.2. Relevant identified uses of the mixture and uses advised against:**
Aerosol product for surface treatment to kill mosquitoes, flies and crawling insects (mainly cockroaches and ants). For consumer and professional use.
Biocide product type: PT18
- 1.3. Details of the supplier of the safety data sheet:**
Information about the manufacturer/distributor:
Bábolna Bio PLC
H-1107 Budapest, Szállás u. 6.
Tel.: (36-1) 432-0400
- 1.3.1. Responsible person:** -
E-mail: info@babolna-bio.com
- 1.4. Emergency telephone number:** **Health Toxicological Information Service**
(Egészségügyi Toxikológiai Tájékoztató Szolgálat / ETTSZ)
1097 Budapest, Albert Flórián út 2-6.
Tel.: +36 80 201 199 (0-24 hours, free of charge – only from Hungary)
Tel.: +36 1 476 6464 (0-24 hours, for normal fee – from abroad)
- Emergency telephone number: 112**

SECTION 2: HAZARDS IDENTIFICATION

- 2.1. Classification of the mixture:**
Classification according to Regulation (EC) No 1272/2008 (CLP):
Aerosols, Hazard Category 1 – H222; H229
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410
- Hazard statements:**
H222 – Extremely flammable aerosol.
H229 – Pressurised container: May burst if heated.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.
- 2.2. Label elements:**
Active substance content: Cyfluthrin (CAS: 68359-37-5) 0.025 %
Transfluthrin (ISO) (CAS: 118712-89-3) 0.11 %
Piperonylbutoxide (CAS: 51-03-6) 0.2 %

GHS02



GHS09



DANGER

Hazard statements:

H222 – Extremely flammable aerosol.

H229 – Pressurised container: May burst if heated.

H410 – Very toxic to aquatic life with long lasting effects.

Precautionary statements:

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.

P273 – Avoid release to the environment.

P410 + P412 – Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P101 – If medical advice is needed, have product container or label at hand.

P103 – Read carefully and follow all instructions.

P391 – Collect spillage.

P402 – Store in a dry place.

P501 – Dispose of contents/container: the empty containers can be disposed of together with household waste.

Note:

Biocide product, it should be packed/labelled according to Regulation (EU) No. 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products.

2.3. Other hazards:

The product has no other known specific hazards for human or environment.

The product does not contain PBT or vPvB substances in a concentration greater than 0,1.

Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Butane Index number: 601-004-00-0	106-97-8	203-448-7	-	≥24 – <25.5	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
Propane Index number: 601-003-00-5	74-98-6	200-827-9	-	≥9 – <10.5	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
ISOPAR L / Hydrocarbons, C11-C13, isoalkanes, <2% aromatics *	246538-78-3	920-901-0	01-2119456810-40	≥6 – <7	GHS08 Danger	Asp. Tox. 1	H304 EUH066
Isobutane Index number: 601-004-00-0	75-28-5	200-857-2	-	≥5 – <6	GHS02 GHS04 Danger	Flam. Gas 1 Press. Gas	H220 H280
Piperonylbutoxide*	51-03-6	200-076-7	01-2119537431-46	0.2	GHS09 Warning	Aquatic Acute 1 M factor =1 Aquatic Chronic 1 M factor =1	H400 H410

Transfluthrin (ISO) Index number: 607-223-00-8	118712-89-3	405-060-5	01- 0000015460- 79	0.11	GHS07 GHS09 Warning	Skin Irrit. 2 Aquatic Acute 1 M factor = 1000 Aquatic Chronic 1 M factor = 1000	H315 H400 H410
Cyfluthrin (ISO) Index number: 607-253-00-1	68359-37-5	269-855-7	-	0.025	GHS06 GHS09 Danger	Acute Tox. 2 Acute Tox. 3 Aquatic Acute 1 M factor = 1000 Aquatic Chronic 1 M factor = 1000	H300 H331 H400 H410
Toluene*/** Index number: 601-021-00-3	108-88-3	203-625-9	-	≥0- <0.05	GHS02 GHS08 GHS07 Danger	Flam. Liq. 2 Repr. 2 Asp. Tox. 1 STOT RE 2 Skin Irrit. 2 STOT SE 3	H225 H361d H304 H373 H315 H336

*: Classification specified by the manufacturer; the substance is not listed in Annex VI of the Regulation (EC) No. 1272/2008.

** : Substance having occupational exposure limit value.

The product is an aerosol containing propellants. Propellants are not taken into account in the calculation of health hazards (unless they pose a health risk).

Quantity of propellants: 40.00 %.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: Removed and contaminated clothes can be washed in a normal washing programme.

Personal protective equipment is not required for first-aiders.

INGESTION:

Measures:

- Rinse mouth with water.
- Do not give anything by mouth to an unconscious person.
- Immediately call a physician.
- Do not leave the victim unattended.

INHALATION:

Measures:

- Take the victim into fresh air.
- In case of persistent or severe complaints, obtain medical help.

SKIN CONTACT:

Measures:

- Immediately remove contaminated clothes.
- Wash the skin with water and soap (do not rub the skin).

EYE CONTACT:

Measures:

- Remove contact lenses if present and easy to do.
- In case of contact with eyes flush with water or eyewash solution holding eyelids apart (for at least 15 minutes).

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

Pyrethroids can cause paresthesia (a burning and stinging sensation on the skin without irritation).

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

In case of unwellness, obtain medical help.

SECTION 5: FIREFIGHTING MEASURES

- 5.1. **Extinguishing media:**
- 5.1.1. **Suitable extinguishing media:**
Carbon dioxide, foam, water spray.
- 5.1.2. **Unsuitable extinguishing media:**
Water jet.
- 5.2. **Special hazards arising from the substance or mixture:**
Extremely flammable aerosol. Pressurised container: May burst if heated.
Combustion can produce toxic gases containing carbon monoxide. Do not breathe in combustion products.
- 5.3. **Advice for firefighters:**
Wear full protective clothing (EN 469), protective gloves (EN 659), boots (A29 and A30 in accordance with HO provision) and self-contained breathing apparatus (EN 137).
Use a water jet to cool the containers and to prevent the formation of decomposition products that are dangerous to health.
The contaminated extinguishing water should be collected separately, do not discharge it into the sewer system.
Fire residues and contaminated extinguishing water must be disposed of in accordance with appropriate regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. **For non-emergency personnel:**
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
- 6.1.2. **For emergency responders:**
Remove sources of ignition (cigarettes, flames, sparks).
Remove unprotected persons.
Wear protective gloves/protective clothing/eye protection/face protection.
- 6.2. **Environmental precautions:**
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
- 6.3. **Methods and material for containment and cleaning up:**
Collect the spilled product with inert absorbent then place into a suitable, closed, properly labelled, hazardous chemical waste container for removal/disposal.
Ventilate the area.
Dispose of the collected waste as described in Section 13.
- 6.4. **Reference to other sections:**
For further and detailed information see Section 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Do not eat, drink, or smoke when using this product.
Do not breathe sprays.
Avoid unnecessary contact with the product or treated surfaces. Improper use may cause damage to health and the environment.
Do not use in the presence of cats and keep cats away from the treated surfaces due to their high sensitivity to the toxicity of pyrethroids.
Do not use on animals.
Do not apply directly on or near to food, feed or drink, or on surfaces or utensils likely to come into direct contact with food, feed or drink.
Wash hands thoroughly after the use of this product.
- Technical measures:**
Vapours can ignite and cause explosions; prevent vapours from building up by keeping doors and windows open (cross ventilation).
Use only in well-ventilated rooms (ventilation must be provided during use).
The product must be applied in a safe manner, minimising the risk of contact with animals or children.
Remove or cover terrariums, aquariums and cages before spraying. Turn off the air filter in the aquarium while spraying.
Do not wash treated surfaces with water.
During application, cover the floor with a waterproof material which should be disposed of after treatment.

Precautions against fire and explosion:

Prevent static discharges.

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.

7.2. Conditions for safe storage, including any incompatibilities:
Technical measures and storage condition:

Store in original, closed packaging, in a cool, dry, well-ventilated, closed place, away from light and moisture.

Always store in a vertical position.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Keep away from ignition sources, oxidizing agents, acids and alkalis.

Keep out of reach of children, birds, pets and livestock.

Shelf life: 4 years

Incompatible materials: See Section 10.5.

Packaging material: In a special tinplate-steel container with a plastic (PP) spray nozzle with a total volume of ≥300 - 1000 ml.

7.3. Specific end use(s):

No specific instructions available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):

Toluene (CAS: 108-88-3): 8 hours: 192 mg/m³, 50 ppm; 384 mg/m³, 100 ppm

Piperonylbutoxide (CAS: 51-03-6):

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	0.222 mg/cm ²	0.222 mg/cm ²	1.936 mg/m ³	1.936 mg/m ³
	Systemic	2.286 mg/kg/day	1.143 mg/kg/day	27.776 mg/kg/day	13.888 mg/kg/day	3.874 mg/m ³	3.874 mg/m ³
Worker	Local	no data	no data	0.444 mg/cm ²	0.444 mg/cm ²	3.874 mg/m ³	0.222 mg/m ³
	Systemic	no data	no data	55.556 mg/cm ²	27.778 mg/kg/day	7.750 mg/m ³	3.875 mg/m ³

PNEC values		
Compartment	Value	Note(s)
Freshwater	0.003 mg/l	no note(s)
Seawater	0.0003 mg/l	no note(s)
Freshwater sediment	0.0194 mg/kg	no note(s)
Seawater sediment	0.00194 mg/kg	no note(s)
Wastewater Treatment Plant (STP)	no data	no note(s)
Intermittent release	0.0003 mg/l	no note(s)
Secondary poisoning	no data	no note(s)
Soil	0.136 mg/l	no note(s)

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin. Proper technical equipment always has priority over personal protective equipment - Ensure appropriate local exhaust ventilation.

8.2.2. Individual protection measures, such as personal protective equipment:

1. **Eye/face protection:** Use appropriate, tightly fitting protective glasses (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
 - a. **Hand protection:** Not required.
 - b. **Other:** Wear suitable long-sleeved gloves and safety footwear (Regulation 2016/425/EU and EN ISO 20344). Wash with soap and water after removing contaminated protective clothing.
3. **Respiratory protection:** If the exposure limit value is exceeded, a filter mask type AX combined with a P filter should be used (EN 14387). Respiratory protection should be used if technical measures cannot reduce exposure. The protection provided by masks is limited.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Do not discharge product residues directly into wastewater or watercourses.

The requirements detailed in section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	aerosol
2. Colour	white
3. Odour, odour threshold	characteristic
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	<35 °C
6. Flammability	no data*
7. Lower and upper explosion limit	1.8 – 9.5 v/v %
8. Flash point	<0 °C
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	7
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	partially soluble no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	0.764 (fluid)
17. Relative vapour density	no data*
18. Particle characteristics	no data*

9.2. Other information:
9.2.1. Information with regard to physical hazard classes:

Explosive properties: Not explosive.

Oxidizing properties: Not oxidizing.

9.2.2. Other safety characteristics:

Dynamic viscosity: 1.2 mPa.s (20 °C) (fluid)
8 mPa.s (40 °C)

VOC: 40.00 % / 305.60 g/l

Surface tension: 23.5 mN/m (20 °C)

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:**
Under normal use it does not pose a risk.
Toluene: Protect from light.
- 10.2. Chemical stability:**
The mixture is stable under normal storage and handling conditions.
- 10.3. Possibility of hazardous reactions:**
No dangerous reactions are expected under normal storage and handling conditions.
Toluene: Explosive with the following substances: fuming sulphuric acid, nitric acid, silver perchlorate, nitrous dioxide, non-metallic halogens, acetic acid, organic nitrogen compounds. May form explosive mixtures with air. May react dangerously with strong oxidising agents, strong acids and sulphur.
- 10.4. Conditions to avoid:**
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.
- 10.5. Incompatible materials:**
Strong reducing or oxidising agents, strong acids or alkalis, hot substances.
- 10.6. Hazardous decomposition products:**
In case of recommended handling and storage no hazardous decomposition products are expected.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. Relevant toxicological properties:**
No data available about the product.
Information about the components:
ISOPAR L (CAS: 246538-78-3):
LD₅₀ (oral, rat): >5000 mg/kg
LD₅₀ (dermal, rat): >5000 mg/kg
LC₅₀ (inhalation, rat): >5000 mg/l/8 h
Cifluthrin (ISO) (CAS: 68359-37-5):
LD₅₀ (oral, rat): 1,189 mg/kg
LD₅₀ (dermal, rabbit): >5000 mg/kg
LC₅₀ (inhalation, rat): 0.405 mg/l/4 h
Transfluthrin (ISO) (CAS: 118712-89-3):
LD₅₀ (oral): >5000 mg/kg
LD₅₀ (dermal): >5000 mg/kg
LC₅₀ (inhalation): >0.513 mg/l
Piperonyl butoxide (CAS: 51-03-6):
LD₅₀ (oral, rat): 4570 mg/kg
LD₅₀ (dermal, rabbit): >2000 mg/kg
LC₅₀ (inhalation, rat): 5.9 mg/l/4 h

Toluene (CAS: 108-88-3):

Has toxic effects on the central and peripheral nervous system, can cause encephalopathy and polyneuritis (inflammation of multiple nerves). Irritant to skin, conjunctiva, cornea and respiratory system.

Certain drugs and other industrial products may affect the metabolism of toluene.

LD₅₀ (oral, rat): 5580 mg/kg

LD₅₀ (dermal, rabbit): 12 124 mg/kg

LC₅₀ (inhalation, rat): 28.1 mg/l/4 hours

Carcinogenicity:

IARC: Group 3 (not classifiable). EPA: "insufficient data available for classification".

11.1.3. Information on likely routes of exposure:

Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:

Pyrethroids can cause paresthesia (a burning and stinging sensation on the skin without irritation).

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No data available.

11.1.6. Interactive effects:

No data available.

11.1.7. Absence of specific data:

No information.

11.2. Information on other hazards:**Endocrine disrupting properties:**

Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

Other information:

No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Short-term (acute) aquatic toxicity hazard: Very toxic to aquatic life.

Long-term (chronic) aquatic toxicity hazard: Very toxic to aquatic life with long lasting effects.

Information about the components:

ISOPAR L (CAS: 246538-78-3):

LC₅₀ (Trota arcobaleno): 1000 mg/l/96 h

EC₅₀ (daphnia): 1000 mg/l/48 h

EC₅₀ (alga): 1000 mg/l/72 h

Cifluthrin (ISO) (CAS: 68359-37-5):

LC₅₀ (fish): 0.00047 mg/l/96 h

EC₅₀ (crustacean): 0.00016 mg/l/48 h

EC₅₀ (algae): >10 mg/l/72 hours

Transfluthrin (ISO) (CAS: 118712-89-3):

LC₅₀ (Oncorhynchus mykiss): 0.0007 mg/l/96 h

EC₅₀ (Daphnia magna): 0,0012 mg/l/48 h

EC₅₀ (algae): >0.044 mg/l/72 hours

NOEC (algae): 0.017 mg/l

Piperonyl butoxide (CAS: 51-03-6):

LC₅₀ (fish): 3.94 mg/l/96 h

EC₅₀ (crustacean): 0.51 mg/l/48 h

EC₅₀ (algae): 3.89 mg/l/72 hours

NOEC (fish): 0,053 mg/l

NOEC (crustacean): 0.03 mg/l

NOEC (algae): 0.824 mg/l

12.2. Persistence and degradability:

Petroleum distillates, coal, vegetable extracts: Mixture of paraffinic, naphthenic, diterpenic and aromatic hydrocarbons. Their behaviour in the environment depends on their concentration. Avoid release to the environment during all uses, following good workplace practice. Biodegradation of the product is known to be poor.

Information about the components:

Butane (CAS: 106-97-8):

Water solubility: 0.1 - 100 mg/l

Rapidly biodegradable.

Propane (CAS: 74-98-6):

Water solubility: 0.1 - 100 mg/l

Rapidly biodegradable.

Cifluthrin (ISO) (CAS: 68359-37-5):

Not readily biodegradable.

Transfluthrin (ISO) (CAS: 118712-89-3):

Not readily biodegradable.

Toluene (CAS: 108-88-3):

Water solubility: 100 – 1000 mg/l

Rapidly biodegradable.

12.3. Bioaccumulative potential:

Information about the components:

Butane (CAS: 106-97-8):

Partition coefficient: n-octanol/water: 1.09

Propane (CAS: 74-98-6):

Partition coefficient: n-octanol/water: 1.09

Cifluthrin (ISO) (CAS: 68359-37-5):

BCF : 506

Toluene (CAS: 108-88-3):

Partition coefficient: n-octanol/water: 2.73

BCF: 90

12.4. Mobility in soil:

No data available.

12.5. Results of PBT and vPvB assessment:

The product does not contain PBT or vPvB substances in a concentration greater than 0,1.

12.6. Endocrine disrupting properties:

Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

12.7. Other adverse effects:

Do not allow the product to enter soil, water courses, pipes (sinks, toilets) or drains.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods:

Disposal according to the local regulations.

13.1.1. Information regarding the disposal of the product:

Dispose of in accordance with applicable regulations.

Reuse if possible. Product residues are considered hazardous waste. The level of hazardousness is determined by the relevant regulations.

The transport of waste may be subject to ADR.

Excess or expired product should be stored in its original packaging until disposal. Wherever possible, the product residue and packaging should be disposed of as hazardous waste. You can find out how to dispose of hazardous waste on the internet or from your local authority. If there is no possibility to dispose of hazardous waste at home, the product residue and packaging can be disposed of with municipal waste.

List of Waste Code:

No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. Information regarding the disposal of the packaging:

Dispose of in accordance with applicable regulations.

Recover or dispose of contaminated packaging.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified:

No data available.


13.1.4. Sewage disposal:

No data available.

13.1.5. Special precautions for any recommended waste treatment:

Do not pierce or burn the can, even after use.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number or ID number:**
UN 1950
- 14.2. UN proper shipping name:**
ADR/RID: AEROSOLS
IMDG; IATA: AEROSOLS / AEROSOLS, flammable
- 14.3. Transport hazard class(es):**
Class: 2
Labels: 2.1 + fish and tree
- 
- 14.4. Packing group:**
No packaging group.
- 14.5. Environmental hazards:**
Environmentally hazardous: Yes.
Marine pollutant: Yes.
- 14.6. Special precautions for user:**
ADR/RID: Limited quantity: 1 litre
Tunnel restriction code: D
IMDG: Limited quantity: 1 litre
EmS: F-D, S-U.
IATA: Cargo: Maximum quantity: 150 kg
Packaging instructions: 203
Passenger: Maximum quantity: 75 kg
Packaging instructions: 203
Special provisions: A145, A167, A802
- 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:**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

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 (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products

COMMISSION DIRECTIVE (EU) No 2013/10 of 19 March 2013 amending Council Directive (EEC) No 75/324 on the approximation of the laws of the Member States relating to aerosol dispensers

The product is regulated under Directive 2012/18/EU (Seveso III).

Category Seveso:

P₃.a FLAMMABLE AEROSOLS

E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Restrictions applicable to the mixture or its components according to Annex XVII of Regulation (EC) No 1907/2006 of the European Parliament and of the Council:

Conditions for restriction: Entries 3 and 40

Does not contain substances of very high concern (SVHC) according to Article 59 of Regulation (EC) No 1907/2006 (REACH).

Does not contain substances listed in Annex XIV of Regulation (EC) No 1907/2006 (REACH) (List of substances subject to authorisation).

It contains a substance that is covered by Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals.

ANNEX I - PART 1 List of chemicals subject to export notification procedure:

Cifluthrin (CAS: 68359-37-5)

15.2. **Chemical safety assessment:** Has been carried out for the following substances.

ISOPAR L (CAS: 246538-78-3)

Piperonyl butoxide (CAS: 51-03-6)

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet: No information.

Literature references / data sources:

Safety data sheet (31. 01. 2022, version 3, HU) issued by the manufacturer.

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Aerosols, Hazard Category 1 – H222; H229	Based on test methods (test data)
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400	Based on calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410	Based on calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:

H220 – Extremely flammable gas.

H222 – Extremely flammable aerosol.

H225 – Highly flammable liquid and vapour.

H229 – Pressurised container: May burst if heated.

H280 – Contains gas under pressure; may explode if heated.

H300 – Fatal if swallowed.

H304 – May be fatal if swallowed and enters airways.

H315 – Causes skin irritation.

H331 – Toxic if inhaled.

H336 – May cause drowsiness or dizziness.

H361d – Suspected of damaging the unborn child.

H373 – May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects.

EUH 066 – Repeated exposure may cause skin dryness or cracking.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

ATE: Acute Toxicity Estimate.

AOX: Adsorbable organic halides.

BCF: Bioconcentration factor.

BOD: Biological Oxygen Demand.

CAS number: Chemical Abstract Service number.

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

CMR effects: Carcinogenic, mutagenic, reprotoxic effects.

COD: Chemical Oxygen Demand.

CSA: Chemical Safety Assessment.

CSR: Chemical Safety Report.

DNEL: Derived-No-Effect-Level.

ECHA: European Chemical Agency.

EC: European Community.

EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).

EEC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European Norm.

EU: European Union.

EWC: European Waste Catalogue (replaced by LoW – see below).

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

IMSBC: International Maritime Solid Bulk Cargoes.

IUCLID: International Uniform Chemical Information Database.

IUPAC: International Union of Pure and Applied Chemistry.

Kow: n-Octanol - Water Partition Coefficient.

LC₅₀: Lethal concentration resulting in 50 % mortality.

LD₅₀: Lethal dose resulting in 50 % mortality (median lethal dose).

LoW: List of Waste.

LOEC: Lowest Observed Effect Concentration.

LOEL: Lowest Observed Effect Level.

NOEC: No Observed Effect Concentration.

NOEL: No Observed Effect Level.

NOAEC: No Observed Adverse Effect Concentration.

NOAEL: No Observed Adverse Effect Level.

OECD: Organization for Economic Cooperation and Development.

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic.

PNEC: Predicted No Effect Concentration.

QSAR: Quantitative Structure Activity Relationship.

REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

SCBA: Self Contained Breathing Apparatus.

SDS: Safety Data Sheet.

STOT: Specific Target Organ Toxicity.

SVHC: Substances of Very High Concern.

UN: United Nations.

UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.

VOC: Volatile Organic Compound.

vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:

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