

SAFETY DATA SHEET

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

- 1.1. Product identifier:**
PROTECT® Forte household dust
- 1.2. Relevant identified uses of the mixture and uses advised against:**
Over-the-counter insecticide for killing hiding insects (cockroach, ant, bedbug, silverfish), for professional and consumer use.

Biocide product type: 18
- 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):
Hazardous to the aquatic environment – Acute Hazard, Category 1 – H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1 – H410
- Hazard statements:**
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.
- 2.2. Label elements:**

Active substance content:
Permethrin (ISO) (CAS: 52645-53-1) 0.5 %
Piperonylbutoxide (ISO) (CAS: 51-03-6) 0.5 %



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

Precautionary statements:

P102 – Keep out of reach of children.

P261 – Avoid breathing dust.

P273 – Avoid release to the environment.

P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P391 – Collect spillage.

P501 – Dispose of contents/container: In accordance with local requirements.

EUH 208 – Contains Permethrin. May produce an allergic reaction.

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.

Results of PBT and vPvB assessment: Not applicable.

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:

Hazardous ingredients:

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)
Permethrin (ISO) Index number: 613-058-00-2	52645-53-1	258-067-9	-	0.5	GHS07 GHS09 Warning	Acute Tox. 4 Acute Tox. 4 Skin Sens. 1 Aquatic Acute 1 (M=1000) Aquatic Chronic 1 (M = 1000)	H332 H302 H317 H400 H410
Piperonylbutoxide (ISO) Index number: 604-096-00-0	51-03-6	200-076-7	01-2119537431-46	0.5	GHS07 GHS09 Warning	STOT SE 3 Eye Irrit. 2 Aquatic Acute 1 (M=1) Aquatic Chronic 1 (M=1)	H335 H319 H400 H410 EUHo66

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: The removed and contaminated clothing can be washed with normal washing program.

Protective equipment for first aiders is not required.

INGESTION:

Measures:

- Rinse mouth with water.
- Give the victim 1-2 glasses of water to drink.

INHALATION:

Measures:

- Take the victim into fresh air.
- In case of persistent irritation or breathing difficulties, obtain medical help.

SKIN CONTACT:

Measures:

- Wash the affected skin surface with plenty of water and soap.
- In case of irritation, obtain medical help.

EYE CONTACT:

Measures:

- In case of contact with eyes flush with plenty of water holding eyelids apart (for at least 15 minutes).
- Remove contact lenses if easy to do.
- In case of irritation, obtain medical help.

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

Inhalation: Breathing difficulties and irritation of the upper respiratory tract.

Skin: May cause redness.

Eyes: May cause irritation and uncomfortable feeling

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

In case of feeling unwell, obtain medical help.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

The mixture is not flammable. Choose extinguishing media depending on the type of fire in the surrounding area.

Dry extinguishing media, carbon dioxide, foam, water spray.

5.1.2. Unsuitable extinguishing media:

No unsuitable extinguishing media known, but do not use water to prevent contaminating the aquatic environment. The extinguishing water should be collected.

5.2. Special hazards arising from the substance or mixture:

In case of fire, toxic gases containing carbon monoxide may be formed; the inhalation of such combustion products can have serious adverse effects on health.

5.3. Advice for firefighters:

Wear appropriate protective clothing and breathing apparatus.

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:

Wear appropriate personal protective equipment (protective clothing, protective gloves, protective glasses, dust mask).

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 mechanically (shovelling or suction equipment/vacuuming), then place into a suitable, closed, properly labelled, chemical waste container for removal/disposal.

Do not use water during the cleaning up.

6.4. Reference to other sections:

For further and detailed information see Section 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE
7.1. Precautions for safe handling:

Observe conventional hygiene precautions.
Do not inhale dust.
Remove food and feed before the application.
Do not eat, drink, or smoke when using this product.
Wash hands and face thoroughly after the use of this product.

Technical measures:

Ensure adequate ventilation.
For professional users the use of protective clothing, protective gloves, protective glasses and dust mask is recommended.

Precautions against fire and explosion:

No special measures required.

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

Keep in dry and cool place, away from food and feed.

Packaging material: No special prescriptions.

7.3. Specific end use(s):

In accordance with the instructions of use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
8.1. Control parameters:

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

The components of the mixture are not regulated with exposure limit value.

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	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no note(s)
Seawater	no data	no note(s)
Freshwater sediment	no data	no note(s)
Seawater sediment	no data	no note(s)
Wastewater Treatment Plant (STP)	no data	no note(s)
Intermittent release	no data	no note(s)
Secondary poisoning	no data	no note(s)
Soil	no data	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 spilling onto clothes and floors and to avoid contact with eyes and skin.
Ensure adequate ventilation.

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

Do not inhale dust.

1. **Eye/face protection:** Not required for occasional use. For professionals, the use of appropriate protective glasses is recommended (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
 - a. **Hand protection:** Not required for occasional use. For professionals, the use of appropriate protective gloves is recommended (EN 374).
 - b. **Other:** Not required for occasional use. For professionals, the use of appropriate clothing is recommended.
3. **Respiratory protection:** Not required for occasional use. For professionals, the use of appropriate respiratory protection is recommended.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

No specific prescription.

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	solid, powder
2. Colour	off-white
3. Odour, odour threshold	slight, characteristic
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	no data*
7. Lower and upper explosion limit	not applicable
8. Flash point	not applicable
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	ca. 7
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	poorly soluble not soluble in organic solvents
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	not applicable
16. Density and/or relative density	no data*
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:

No other characteristics available.

*: 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:**
No reactivity known.
- 10.2. Chemical stability:**
Stable within normal ambient temperature and pressure under storage and handling conditions.
- 10.3. Possibility of hazardous reactions:**
No hazardous reactions known.
- 10.4. Conditions to avoid:**
Humidity.
- 10.5. Incompatible materials:**
No incompatible materials known.
- 10.6. Hazardous decomposition products:**
No hazardous decomposition products known.

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: May cause an allergic skin reaction.
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:
Permethrin (CAS: 52645-53-1):
LD₅₀ (oral, rat): >430 mg/kg
LD₅₀ (dermal, rabbit): >2000 mg/kg
Piperonylbutoxide (ISO) (CAS: 51-03-6):
LD₅₀ (oral, rat): >4700 mg/kg
LD₅₀ (dermal, rabbit): >2000 mg/kg
LC₅₀ (inhalative, rat): 5,9 mg/l/4 hours
- 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:**
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**
Contains Permethrin. May produce an allergic reaction.
- 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:
Permethrin (CAS: 52645-53-1):
LC₅₀ (fish): 0,003 mg/l/96 hours
EC₅₀ (daphnia): 0,0006 mg/l/48 hours
Piperonylbutoxide (ISO) (CAS: 51-03-6):
LC₅₀ (fish): 3,9 mg/l/96 hours
EC₅₀ (daphnia): 0,51 mg/l/48 hours
- 12.2. Persistence and degradability:**
No data available.
- 12.3. Bioaccumulative potential:**
No data available.
- 12.4. Mobility in soil:**
Not applicable.
- 12.5. Results of PBT and vPvB assessment:**
Not applicable.
- 12.6. Endocrine disrupting properties:**
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
- 12.7. Other adverse effects:**
No data available.

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.
The empty packaging in small quantities can be disposed of together with household waste, in larger quantities the product residues and the packaging should be handled and disposed of as hazardous waste.
Recommended disposal method: incineration.
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.
- 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:**
No data available.

SECTION 14: TRANSPORT INFORMATION

- 14.1. UN number or ID number:**
UN 3077
- 14.2. UN proper shipping name:**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (permethrin)
- 14.3. Transport hazard class(es):**
9
- 14.4. Packing group:**
III
- 14.5. Environmental hazards:**
Environmentally hazardous: Yes.

14.6. Special precautions for user:

Limited quantity: 5 kg

Exempted quantity : E1

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

Contains substance falling under the scope of 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:

Permethrin (CAS: 52645-53-1)

15.2. Chemical safety assessment: Has not been carried out.

SECTION 16: OTHER INFORMATION

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

Literature references / data sources:

Hungarian version of the safety data sheet (08. 12. 2023, version 4)

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

Classification	Method
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:

H302 – Harmful if swallowed.

H317 – May cause an allergic skin reaction.

H332 – Harmful if inhaled.

H335 – May cause respiratory irritation.

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.

EUH 208 – Contains Permethrin. May produce an allergic reaction.

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.

EuPCS: European product categorisation system.

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:

MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of
the safety data sheet:

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