

SAFETY DATA SHEET

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

1.1. Product identifier:

Biopren ant killer gel

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

Insecticide gel bait against ants only for professional use.

Identified uses:

For environmental and food-hygienic purposes. Carefully read label before use. Do not mix with other chemicals.

Application method: precise application.

Biocide product type: PT 18

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

Bábolna Bioenvironmental Centre Ltd.

H-1107 Budapest, Szállás u. 6.

Tel.: (36-1) 432-0400

1.3.1. Responsible person:

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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 substance or mixture:

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

Hazardous to the aquatic environment – Chronic Hazard, Category 2 – H411

Hazard statements:

H411 – Toxic to aquatic life with long lasting effects.

2.2. Label elements:

Active substance content:

Imidacloprid (ISO) (CAS: 138261-41-3) 0.01 %

S-Methoprene (CAS: 65733-16-6) 0.08 %

GHS09



Hazard statements:

H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements:

P102 – Keep out of reach of children.

P103 – Read carefully and follow all instructions.

P273 – Avoid release to the environment.

P391 – Collect spillage.

P501 – Dispose of contents/container as hazardous waste to a registered establishment or undertaking, in accordance with current regulations. (Trained professional). Dispose of contents/container to as hazardous waste according to the regulations in force. (Professional and general public).

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: no data available.

Endocrine disrupting property: This product does not contain any known or suspected endocrine disruptor ingredients.

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)
Imidacloprid (ISO) Index number: 612-252-00-4	138261-41-3	428-040-8	-	0.01	GHS07 GHS09 Warning	Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1	H302 H400 H410
S-Methoprene Index number: 607-725-00-7	65733-16-6	-	-	0.08	GHS09 Warning	Aquatic Acute 1 M factor =1 Aquatic Chronic 1 M factor =1	H400 H410

Other ingredients:

Bitrex®: 0.008 %

Excipients: add. 100 %

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

General information: Remove the victim from the contaminated area and take off stained or splashed clothing. If necessary, take the victim to hospital and show the packaging or the label. DO NOT LET THE VICTIM ALONE.

INGESTION:

Measures:

- If symptoms occur call a POISON CENTRE or a doctor.

INHALATION:

Measures:

- If symptoms occur call a POISON CENTRE or a doctor.

SKIN CONTACT:

Measures:

- Wash the skin with water.
- If symptoms occur call a POISON CENTRE or a doctor.

EYE CONTACT:

Measures:

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

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

The most important acute and delayed symptoms and effects are contained in section 11.

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

No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

The product is not flammable.

5.1. Extinguishing media:

5.1.1. Suitable extinguishing media:

Pulverized water, extinguishing powder, sand and carbon dioxide.

5.1.2. Unsuitable extinguishing media:

Water (direct jet application).

5.2. Special hazards arising from the substance or mixture:

In case of fire, smoke and other combustion products may be formed; the inhalation of such combustion products can have serious adverse effects on health.

The combustion products may be toxic and /or irritant. In case of fire, do not breathe fumes.

Explosion hazard: No explosion hazard.

5.3. Advice for firefighters:

Wear protective clothing and self-contained breathing apparatus.

Measures must be taken to prevent the contaminated extinguishing agent from releasing into the ground or spreading uncontrollably.

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:

Ensure adequate ventilation.

Avoid contact with the spillage or the contaminated surfaces.

Use personal protective equipment.

Avoid unprotected people from approaching the area.

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:

Recover the product from the affected surface and water. In the case of spillage into water, avoid spreading by using adequate barrier devices. The recovered product must be eliminated according to local legislation. Contact the relevant authorities if the situation cannot be controlled.

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.
 Avoid contact with treated surfaces.
 Use products at recommended doses and intervals.
 Use only in areas inaccessible to children and animals.
 Do not use directly on or near food, feed or drinks, or on surfaces or utensils likely to be in direct contact with food, feed, drinks and livestock.
 Do not mix with other chemicals.
 Do not use on wood or porous surfaces.
Technical measures:
 No special measures required.
Precautions against fire and explosion:
 Keep away from heat, open flames and sparks.
- 7.2. Conditions for safe storage, including any incompatibilities:**
Technical measures and storage condition:
 The storage stability of this product in its original container is 4 years under normal conditions of storage.
 Protect from frost.
 Store in the original container tightly closed.
 Store in a dry, cool and well-ventilated place.
 Keep out of reach of children and non-target animals/pets.
Storage temperature: 5 – 45 °C.
Incompatible materials: see Section 10.5.
Packaging material: LDPE plastic syringes, LDPE plastic cartridges, plastic bait stations.
- 7.3. Specific end use(s):**
 Insecticide.

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 leaking onto clothes and floors and to avoid contact with eyes and skin.

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

1. **Eye/face protection:** Not required.
2. **Skin protection:**
 - a. **Hand protection:** Not required.
 - b. **Other:** Not required.
3. **Respiratory protection:** Not required.
4. **Thermal hazards:** Thermally stable.

8.2.3. **Environmental exposure controls:**

Handle and store in accordance with local requirements.

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	gel
2. Colour	yellowish translucent
3. Odour, odour threshold	characteristic
4. Melting point/freezing point	170 °C
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	not flammable
7. Lower and upper explosion limit	no data*
8. Flash point	>75 °C
9. Auto-ignition temperature	not self-flammable
10. Decomposition temperature	>200 °C (not explosive)
11. pH	6.62
12. Kinematic viscosity	no data*
13. Solubility in water in other solvents	dispersible no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	1.30 g/ml
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:**

Explosion hazard: No explosion hazard

9.2.2. **Other safety characteristics:**

Dynamic viscosity: 86052 mPa.s (4 r.p.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:**

No reactivity known.

10.2. **Chemical stability:**

Stable under normal conditions.

10.3. **Possibility of hazardous reactions:**

- No hazardous reactions known.
- 10.4. **Conditions to avoid:**
Avoid extreme temperature changes.
- 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: 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:**
Data about the product:
LD₅₀ (oral, rat): >5000 g/kg (estimated)
LD₅₀ (dermal, rat): >2000 g/kg/24 h
- Information about the components:
Imidacloprid (ISO) (CAS: 138261-41-3):
Eyes and skin: Non irritating to eyes and skin (rabbits).
Sensitisation: Not sensitising.
Carcinogenicity: Not carcinogenic.
Mutagenicity: Not mutagenic.
Reproductive toxicity: Not teratogenic.
- S-Methoprene (CAS: 65733-16-6):**
Eyes and skin: Slightly irritant.
Sensitisation: Not sensitising.
Carcinogenicity: Not carcinogenic.
Mutagenicity: Not mutagenic.
Reproductive toxicity: Not teratogenic.
- 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:**
No acute and delayed symptoms and effects known.
- 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: This product does not contain any known or suspected endocrine disruptor ingredients.
Other information:
No data available.


SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**
Toxic to aquatic life with long lasting effects.
- 12.2. Persistence and degradability:**
Information about the components:
Imidacloprid (ISO) (CAS: 138261-41-3):
Not readily biodegradable.
S-Methoprene (CAS: 65733-16-6):
Not readily biodegradable.
- 12.3. Bioaccumulative potential:**
Information about the components:
Imidacloprid (ISO) (CAS: 138261-41-3):
log Pow: 0.57
S-Methoprene (CAS: 65733-16-6):
log Pow: 6.34
- 12.4. Mobility in soil:**
Surface tension: 43.8 ± 0.4 mN/m
Information about the components:
Imidacloprid (ISO) (CAS: 138261-41-3):
Surface tension: 72.20 mN/m at 20 °C (c = 458.91 mg/L)
S-Methoprene (CAS: 65733-16-6):
Surface tension: 50.1 mN/m at 20 °C (1 mg/l)
- 12.5. Results of PBT and vPvB assessment:**
No data available.
- 12.6. Endocrine disrupting properties:**
Endocrine disrupting property: This product does not contain any known or suspected endocrine disruptor ingredients.
- 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 current regulations (professional and general public), or deliver those wastes to a registered establishment or undertaking, in accordance with current regulations (trained professional).
Empty containers, unused product and other waste generated during the treatment are considered hazardous waste.
Do not release to soil, ground, surface water or any kind of sewer.
Waste treatment-relevant information:
Use carbonated or soapy water to clean the floor and contaminated objects. Do not dispose of the wastewater in drains or the environment. Cover the product with an absorbent material such as sand, earth or diatomic earth to prevent spreading.
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:**
The treatment and/or disposal must be carried out according to the law. IT must be disposed of at an authorised waste collecting point. The spilled product cannot be reused and must be disposed of.
- 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 3082
- 14.2. UN proper shipping name:**
ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.
- 14.3. Transport hazard class(es):**
Class: 9
Label: 9 + fish and tree
- 
- 14.4. Packing group:**
III
- 14.5. Environmental hazards:**
Environmentally hazardous: Yes.
Marine pollutant: Yes.
- 14.6. Special precautions for user:**
ADR: Special provisions: 274, 335, 601, 375
Limited quantities: 5 L
RID: Special provisions: 274, 335, 375, 601
Limited quantities: 5 L
Hazard identification number: 90
IMDG: Special provisions: 274, 335, 969
Limited quantities: 5 L
EmS: F-A, S-F
IATA: Special provisions: A97, A158, A197
PCA Limited quantities: Y964
ERG code: 9L
ADN: Special provisions: 274, 335, 375, 601
Limited quantities: 5 L
- 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

The product contains a substance which is contained in regulation (EC) No. 649/2012 concerning the export and import of hazardous chemicals (PIC).

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

Imidacloprid (ISO) (CAS: 138261-41-3)

15.2. **Chemical safety assessment:** No information.

SECTION 16: OTHER INFORMATION

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

Literature references / data sources:

Safety data sheet (June 2021, Edition N° 1, EN) issued by the manufacturer.

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

Classification	Method
Hazardous to the aquatic environment – Chronic Hazard, Category 2 – H411	Expert judgment, classified by the manufacturer

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

H302 – Harmful if swallowed.

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.

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:
MSDS-Europe
International branch of ToxInfo Kft.

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the safety data sheet:
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