

# SAFETY DATA SHEET according to Regulation 1907/2006



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Product name: **BIOPLANTELLA ORGANIC SLUG DEFENCE GEL**  
Creation date: **7.8.2014** · Revision: **7.2.2019** · Version: **2**

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

### 1.1. Product identifier

#### Product name

**BIOPLANTELLA ORGANIC SLUG DEFENCE GEL**



[chemius.net/GY2ab](http://chemius.net/GY2ab)

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

#### Relevant identified uses

As a home garden molluscicide barrier.

#### Uses advised against

No information.

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

#### Supplier

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

### 1.4. Emergency telephone number

112

+386 1 755 81 50

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

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

According to the regulation, the product is not classified as hazardous.

### 2.2 Label elements

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

Pictograms not applicable according to Regulation 1272/2008.

#### 2.2.2. Contains:

-

#### 2.2.3. Special provisions

Special hazards are not known or expected.

### 2.3. Other hazards

No information.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

For mixtures see 3.2.

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## 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
sodium chloride	7647-14-5 231-598-3 -	<100	not classified		-
potassium (E,E)-hexa-2,4-dienoate	24634-61-5 246-376-1 019-003-00-3	<0,3	Eye Irrit. 2; H319		-

## SECTION 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General notes

When in doubt or if feeling unwell seek medical assistance.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

#### Following skin contact

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

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! In case of doubt or if feeling unwell seek medical help.

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

#### Inhalation

-

#### Skin contact

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

#### Eye contact

It can cause shortterm irritation.

#### Ingestion

May cause nausea/vomiting and diarrhea.

### 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

The preparation does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

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

### Hazardous combustion products

Not combustible / not flammable.

## 5.3. Advice for firefighters

### Protective actions

In case of fire or heating do not breathe fumes/vapours.

### Special protective equipment for firefighters

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

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

Use personal protective equipment (Section 8). Prevent prolonged and repeated contact with product. Thoroughly clean hands after use or contact.

##### **Emergency procedures**

Ensure adequate ventilation.

#### 6.1.2. For emergency responders

-

### 6.2. Environmental precautions

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

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

#### 6.3.1. For containment

Dam the spillage.

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

#### 6.3.3. Other information

-

### 6.4. Reference to other sections

See also Sections 8 and 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

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

Ensure adequate ventilation.

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

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

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## 7.1.2. Advice on general occupational hygiene

Prevent prolonged and repeated contact with skin. Avoid contact with eyes. Wash thoroughly the hands after use.

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

### 7.2.1. Technical measures and storage conditions

Keep in dry and cool place. Protect against heat and direct sunlight. Avoid extreme temperatures. Keep container closed. Keep in properly labelled containers.

### 7.2.2. Packaging materials

The original container of producer.

### 7.2.3. Requirements for storage rooms and vessels

Do not store in unlabelled containers.

### 7.2.4. Storage class

-

### 7.2.5. Further information on storage conditions

-

## **7.3. Specific end use(s)**

### **Recommendations**

-

### **Industrial sector specific solutions**

-

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **8.1. Control parameters**

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

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

#### 8.1.3. DNEL/DMEL values

No information.

#### 8.1.4. PNEC values

No information.

### **8.2. Exposure controls**

#### 8.2.1. Appropriate engineering control

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

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with skin.

#### 8.2.2. Personal protective equipment

##### **Eye and face protection**

If there is risk of splashing into eyes, wear safety glasses with side shields (EN 166).

##### **Hand protection**

No requirements under normal use conditions. In case of prolonged exposure, wear protective gloves (EN 374). Protective gloves (EN 374).

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## Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

## Respiratory protection

No requirements under normal use conditions.

## Thermal hazards

-

## 8.2.3. Environmental exposure controls

-

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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

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

### Important health, safety and environmental information

- <b>pH</b>	No information.
- <b>Melting point/freezing point</b>	No information.
- <b>Initial boiling point/boiling range</b>	No information.
- <b>Flash point</b>	No information.
- <b>Evaporation rate</b>	No information.
- <b>Flammability (solid, gas)</b>	No information.
- <b>Explosion limits (vol%)</b>	No information.
- <b>Vapour pressure</b>	No information.
- <b>Vapour density</b>	No information.
- <b>Density</b>	No information.
- <b>Solubility</b>	<b>Water:</b> Soluble
- <b>Partition coefficient</b>	No information.
- <b>Auto-ignition temperature</b>	No information.
- <b>Decomposition temperature</b>	No information.
- <b>Viscosity</b>	No information.
- <b>Explosive properties</b>	Product is not explosive.
- <b>Oxidising properties</b>	No information.

### 9.2. Other information

- <b>Remarks:</b>	
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## SECTION 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

-

### 10.2. Chemical stability

-

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## 10.3. Possibility of hazardous reactions

-

## 10.4. Conditions to avoid

Extreme temperatures.

## 10.5. Incompatible materials

No specific incompatible substances.

## 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	oral	LD <sub>50</sub>	rat		> 10000 mg/kg		
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	inhalation	LC <sub>50</sub>	rat	4 h	> 5,15 mg/l	OECD 403	
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	dermal	LD <sub>50</sub>	rat		> 2000 mg/kg	OECD 402	

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	rabbit		No irritant effect.	OECD 404	

#### (c) Serious eye damage/irritation

Name	Species	Time	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	rabbit		Irritating.	OECD 405	

#### (d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	dermal	guinea pig		Non sensitising.		

#### (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	in-vitro mutagenicity	Bacteria		Negative with metabolic activation, negative without metabolic activation.	Directive 67/548/EEC, Annex V, B.13.	Ames test
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	in-vitro mutagenicity			**no_trans(16064)**	EU Method B.10	
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	in-vivo mutagenicity	Mammals		Negative.		Micronucleus assay

#### (f) Carcinogenicity

No information.

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## (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	Teratogenicity	NOAEL	rat		340 mg/kg bw/day	No effect		oral
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	Effects on fertility	NOAEL	rat		3000 mg/kg bw/day	No effect	OECD 416	oral

## Summary of evaluation of the CMR properties

No information.

## (h) STOT-single exposure

No information.

## (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	oral	NOAEL	rat			750 mg/kg			

## (j) Aspiration hazard

No information.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

##### For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	LC <sub>50</sub>	> 1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>	OECD 203	
	EC <sub>50</sub>	982 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	
	EC <sub>50</sub>	> 100 mg/L	3 h	bacteria	Activated sludge	OECD 209	

#### 12.1.2. Chronic (long-term) toxicity

No information.

### 12.2. Persistence and degradability

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

No information.

#### 12.2.2. Biodegradation

##### For components

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
potassium (E,E)-hexa-2,4-dienoate (24634-61-5)	-			readily biodegradable		

### 12.3. Bioaccumulative potential

#### 12.3.1. Partition coefficient

No information.

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## 12.3.2. Bioconcentration factor (BCF)

No information.

## 12.4. Mobility in soil

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

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## 12.5. Results of PBT and vPvB assessment

No evaluation.

## 12.6. Other adverse effects

No information.

## 12.7. Additional information

### **For product**

Under normal use conditions no negative environmental effects expected.  
Bioaccumulation is not expected.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. Product / Packaging disposal

##### **Waste chemical**

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.  
Suitable for disposing in appropriate, authorized disposal plants.

##### **Packaging**

Completely empty container dispose of together with household garbage.

#### 13.1.2. Waste treatment-relevant information

-

#### 13.1.3. Sewage disposal-relevant information

-

#### 13.1.4. Other disposal recommendations

-

## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

Not applicable.

### 14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

### 14.3. Transport hazard class(es)

Not applicable.



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## 14.4. Packing group

Not applicable.

## 14.5. Environmental hazards

NO.

## 14.6. Special precautions for user

Not applicable.

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

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 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

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

Not applicable.

### 15.2. Chemical Safety Assessment

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

## SECTION 16. OTHER INFORMATION

### Indication of changes

-

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union

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Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

## Key literature references and sources for data

MSDS, BioPlantella Organic Slug Defence Gel, Unichem d.o.o., date, 21.06.2010

## List of relevant H phrases

H319 Causes serious eye irritation.

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

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