

EC safety data sheet

Trade name: BIO KILL EXTRA GT

Current version : 1.1.1, issued: 22.03.2018

Replaced version: 1.1.0, issued: 22.02.2018

Region: GB

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

1.1 Product identifier

Trade name

BIO KILL EXTRA GT

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

Relevant identified uses of the substance or mixture

Insecticide

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Jesmond BioScience GesmbH
Weimarerstr. 104/3/8
A-1190 Wien

Telephone no. +43 1 368 51 85 0
Fax no. +43 1 368 00 50
e-mail reg@jesmond.co.at

Information provided by / telephone

+43 1 368 51 850

Advice on Safety Data Sheet

office@jesmond.com

Identification of the supplier

Address

ENVIRONMENTAL PRODUCTS SA (PTY) LTD.
7 B Osprey Street,
Amberfield Crest,
Rooihuiskraal North X 18.
Centurion.
0157.
Republic of South Africa
Tel.: 012 656 0259
POISON CENTER: 0861 555 777

1.4 Emergency telephone number

Poisons centre
+43 1 406 43 43

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H332
Aquatic Acute 1; H400
Aquatic Chronic 2; H411

Classification information

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

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2.2 Label elements

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

Hazard pictograms



GHS07



GHS09

Signal word

Warning

Hazardous component(s) to be indicated on label:

lambda-cyhalothrin

Hazard statement(s)

H332

Harmful if inhaled.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P101

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

P102

Keep out of reach of children.

P103

Read label before use.

P261

Avoid breathing vapours/spray.

P271

Use only outdoors or in a well-ventilated area.

P501

Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

mixture of EW (emulsion in water) and CS (capsule suspension)

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	lambda-cyhalothrin			
	91465-08-6 415-130-7 607-252-00-6 -	Acute Tox. 2*; H330 Acute Tox. 3*; H301 Acute Tox. 4*; H312 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.071	%-b.w.
2	prallethrin			
	23031-36-9 245-387-9 607-431-00-9 -	Acute Tox. 3*; H331 Acute Tox. 4*; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.008	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(* , ** , *** , ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	-	M = 10000	M = 100
2	-	-	M = 100	M = 100

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or if you feel unwell, seek medical advice immediately. Change contaminated, saturated clothing.

After inhalation

Remove affected person from the immediate area. If unconscious place in recovery position and seek medical advice. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart and seek medical advice.

After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water mist; Water spray jet; Carbon dioxide; Dry chemical extinguisher; Foam

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Combustion products of this material have to be classed invariably as respiratory poison.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid contact with skin, eyes and clothing. Use personal protective clothing. Refer to protective measures listed in sections 7 and 8.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

6.3 Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

No data available.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Keep container tightly closed. If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Do not eat or drink during work - no smoking.

General protective and hygiene measures

Do not eat or drink during work - no smoking. After worktime and during work intervals the affected skin areas must be thoroughly cleaned. Keep away from foodstuffs and beverages. Avoid contact with eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition - refrain from smoking.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container.

Advice on storage assembly

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No parameters available for monitoring.

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. Filter A or environment-independent breathing apparatus.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Chemical-resistant work clothes.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour
liquid
beige

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Odour			
slightly aromatic			
Odour threshold			
No data available			
pH value			
Value		5.6	
Reference temperature		20	°C
Boiling point / boiling range			
No data available			
Melting point / melting range			
No data available			
Decomposition point / decomposition range			
No data available			
Flash point			
Value	>	100	°C
Auto-ignition temperature			
Value	max.	400	°C
Oxidising properties			
not oxidizing			
Explosive properties			
Product does not present an explosion hazard.			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
No data available			
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
Value		1.0	g/cm ³
Reference temperature		20	°C
Solubility in water			
Remarks		dispersible	
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	prallethrin	23031-36-9	245-387-9
log Pow		appr.	49

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Viscosity			
Value	3	mPa*s	
Reference temperature	20	°C	
Type	dynamic		
Value	3.6	Pa	
Type	Yield Point		

9.2 Other information

Other information
Particle size: D (v, 0.5) 2 µM D (v, 0.9) 5 µM

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

stable at 25°C.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Stable under recommended storage and handling conditions (See section 7).

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity			
No	Product Name		
1	BIO KILL EXTRA GT		
LD50	>	5000	mg/kg
Species	rat (female)		
Source	Product Safety Labs, Dayton, USA		

Acute dermal toxicity			
No	Product Name		
1	BIO KILL EXTRA GT		
LD50	>	5000	mg/kg
Species	rats (male/female)		
Source	Product Safety Labs, Dayton, USA		

Acute inhalational toxicity			
No	Product Name		
1	BIO KILL EXTRA GT		
LC50	>	2.04	mg/l
Duration of exposure		4	h
State of aggregation	Dust/mist		
Species	rats (male/female)		
Source	Product Safety Labs, Dayton, USA		

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Skin corrosion/irritation
No data available
Serious eye damage/irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Reproduction toxicity
No data available
Carcinogenicity
No data available
STOT - single exposure
No data available
STOT - repeated exposure
No data available
Aspiration hazard
No data available
Delayed and immediate effects as well as chronic effects from short and long-term exposure
May cause sensitization by skin contact such as tingling/numbness on exposed areas (paresthesia). These effect are transient, lasting up to 24 h.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	lambda-cyhalothrin	91465-08-6	415-130-7
	LC50	0.00036	mg/l
	Duration of exposure	96	h
	Species	Rainbow trout	
	Source	Pesticide Manual	
2	prallethrin	23031-36-9	245-387-9
	LC50	0.012	mg/l
	Duration of exposure	96	h
	Species	Rainbow trout	
	Source	Pesticide Manual	
Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	lambda-cyhalothrin	91465-08-6	415-130-7
	NOEC	0.00025	mg/l
	Duration of exposure	28	day(s)
	Species	Cyprinodon variegatus	
	Source	Pesticide Manual	

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Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	lambda-cyhalothrin	91465-08-6	415-130-7
EC50		0.00036	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Source		Pesticide Manual	
2	prallethrin	23031-36-9	245-387-9
EC50		0.0062	mg/l
Duration of exposure		48	h
Species		Daphnia magna	
Source		Pesticide Manual	

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	prallethrin	23031-36-9	245-387-9
NOEC		0.00065	mg/l
Species		Daphnia magna	
Source		Manufacturer	

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	lambda-cyhalothrin	91465-08-6	415-130-7
ErC50		>	1 mg/l
Duration of exposure		72	h
Species		Scenedesmus capricornutum	
Source		Pesticide Manual	

Toxicity to algae (chronic)	
No data available	

Bacteria toxicity	
No data available	

Other aquatic organisms	
Remarks	Very toxic to aquatic organisms.

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	prallethrin	23031-36-9	245-387-9
Evaluation		not readily biodegradable	

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water			
No	Substance name	CAS no.	EC no.
1	prallethrin	23031-36-9	245-387-9
log Pow		appr.	49

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information	
Product is not allowed to discharge into aquatic environment, drains or sewage treatment plants.	

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste code 02 01 08* agrochemical waste containing hazardous substances
The listed waste code numbers, according to the European Waste Catalogue, are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Packaging

Completely discharge containers. Do not reuse product container.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	lambda-cyhalothrin
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	lambda-cyhalothrin
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	lambda-cyhalothrin
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

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SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	E1
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15.2 Chemical safety assessment

No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Department issuing safety data sheet

UMCO GmbH

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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