

## Safety Data Sheet

section

### 1 Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation : Bio Kill® Extra GT.

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

Relevant identified uses : Insecticide.  
Uses advised against : No data available.

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

Supplier : **Name:** Environmental Products SA (Pty) Ltd.  
**Street:** 7B Osprey Street, Amberfield Crest, Rooihuiskraal X18, Centurion, 0157  
**Postal code/City:** PostNet Suite #26, Private Bag X2, Raslouw, 0109  
**Country:** South Africa.  
**Telephone:** +27 82 703 0086  
**Email:** [regulatory@environmentalproducts.co.za](mailto:regulatory@environmentalproducts.co.za)

#### 1.4 Emergency Telephone Number

ZA: **Emergency Tel:** +27 82 446 8946  
**POISON CENTER:** +27 861 555 777

## section 2 Hazards identification

### 2.1 Classification of the substance or mixture

**Hazards identification:** This mixture is not classified as dangerous.

H303	Acute Tox. 5 ORAL	May be harmful if swallowed.
H313	Acute Tox. 5 DERMAL	May be harmful in contact with skin.
H333	Acute Tox. 5 INHALATION	May be harmful if inhaled.
H315	Skin Irritation 2.	Causes Skin Irritation
H401	Aquatic Acute 2	Toxic to aquatic life.
H411	Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling Hazard pictograms



#### Signal word

WARNING

#### Hazard Statements

H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H333	May be harmful if inhaled.
H315	Causes Skin Irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary Statements - Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.

#### Precautionary Statements - Response

P391	Collect spillage.
P312	Call a POISON CENTER/doctor if you feel unwell.

#### Precautionary Statements - Disposal

P501	Dispose of contents/container to local and national regulations.
------	--

### 2.3 Other hazards

Not available

## section 3 Composition/information on ingredients

### 3.1 Mixtures

This product/mixture at these concentration levels does not contain any hazardous ingredients **at or above regulated thresholds**.

Substance	Concentration (%)	Specific concentration limits	Classification
<b>LAMBDA-CYHALOTHRIN</b>			
CAS N° 91465-08-6 EC N° 415-130-7	C ≤ 0.068%		See Classification of mixture in section 2 and 16.
<b>2-methyl-4-oxo-3-(prop-2-ynyl)cyclopent-2-en-1-yl 2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate (Prallethrin)</b>			
CAS N° 23031-36-9 EC N° 245-387-9	C ≤ 0.0075%		See Classification of mixture in section 2 and 16.

[1] Substance for which maximum workplace exposure limits are available.

### 3.2 Remark

Full text of H- phrases: see section 16.

## section 4 First aid measures

### 4.1 Description of first aid measures

**General information:**

When in doubt or if symptoms are observed, get medical advice. Call a POISON CENTER/doctor if you feel unwell.

**Following inhalation:**

No special measures are necessary.  
Provide fresh air.

**Following skin contact:**

Wash with soap and water.

**Following eye contact:**

In case of eye irritation consult an ophthalmologist.  
Rinse immediately carefully and thoroughly with eye-bath or water.

**Following ingestion:**

IF SWALLOWED: Rinse mouth.  
Do NOT induce vomiting. Seek medical attention.

**Self-protection of the first aider:**

No special measures are necessary.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

## 4.3 Indication of any immediate medical attention and special treatment needed

### Notes for the doctor:

Treat symptomatically.

# section 5 Firefighting measures

## 5.1 Extinguishing media

### Suitable extinguishing media:

Foam.  
Extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Sand.

### Unsuitable extinguishing media:

Strong water jet.

## 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

## 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4 Additional information

Do not inhale vapors and fumes.  
Co-ordinate fire-fighting measures to the fire surroundings.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.  
Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# section 6 Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

## 6.2 Environmental precautions

Ensure that waste is collected and contained.  
Contain leaks or spills within cabinets with removable trays.

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

Treat the recovered material as prescribed in the section on waste disposal.  
 Collect in closed and suitable containers for disposal.  
 Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
 Wipe up with absorbent material (eg. cloth, fleece).

### 6.4 Reference to other sections

Safe handling: see section 7.  
 Disposal: see section 13.  
 Personal protection equipment: see section 8.

### 6.5 Additional information

Not available

## section 7 Handling and Storage

### 7.1 Precautions for safe handling

**PROTECTIVE MEASURES:**

No special measures are necessary.

**Advices on general occupational hygiene:**

Wash hands before breaks and after work.  
 Remove contaminated, saturated clothing.

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

Keep container tightly closed in a dry, cool, and well-ventilated place.  
 Keep container in upright position in order to prevent leakage.

**Advice on joint storage:**

Keep away from food, drink and animal feedingstuffs.

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## section 8 Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits:**

Does not contain substances above concentration limits fixing an occupational exposure limit.

**Biological limit values:**

Not available

**Exposure limits at intended use:**

Not available

**Remark:**  
Not available

## 8.2 Exposure controls

**Appropriate engineering controls:**  
See section 7. No additional measures necessary.



**Personal protection equipment:** Not available

- |                               |   |  |
|-------------------------------|---|--|
| <b>Eye/face protection</b>    | : | <b>Suitable eye protection:</b><br>Wear eye protection equipment.  |
| <b>Skin protection</b>        | : | <b>Hand protection:</b><br><b>Suitable gloves type:</b><br>Wear protective gloves.<br><b>Body protection:</b><br><b>Suitable protective clothing:</b><br>No special measures are necessary.<br>Lab coat. |
| <b>Respiratory protection</b> | : | <b>Suitable respiratory protection apparatus:</b><br>No data available.  |

**Environmental exposure controls:**  
No special measures are necessary.

# section 9 Physical and chemical Properties

## 9.1 Information on basic physical and chemical properties

- |   |   |                               |
|---|---|-------------------------------|
| <b>Physical state</b>                                   | : | Liquid                        |
| <b>Colour</b>   | : | Beige                         |
| <b>Odour</b>  | : | Aromatic                      |
| <b>Odour threshold</b>                                  | : | Not available                 |
| <b>pH</b>   | : | 5.6 @ 20 ° C                  |
| <b>Melting/Freezing point</b>                           | : | Not available                 |
| <b>Boiling point</b>                                    | : | Not available                 |
| <b>Flash point</b>                                      | : | Not available                 |
| <b>Evaporation rate</b>                                 | : | Not available                 |
| <b>Flammability</b>                                     | : | Not available                 |
| <b>Lower limit of flammability or explosive</b>         | : | Not available                 |
| <b>Vapour pressure</b>                                  | : | Not available                 |
| <b>Vapour density</b>                                   | : | Not available                 |
| <b>Relative density</b>                                 | : | 1.0 g/m <sup>3</sup> @ 20 ° C |
| <b>Water solubility</b>                                 | : | Dispersible                   |
| <b>Partition coefficient, n-octanol/water (log Pow)</b> | : | Not available                 |
| <b>Auto-inflammability temperature</b>                  | : | Not available                 |
| <b>Decomposition temperature</b>                        | : | Not available                 |
| <b>Viscosity</b>  | : | Not available                 |

<b>Explosive properties</b>	:	Not available
<b>Oxidising properties</b>	:	Not available
<b>Solubility in other Solvents</b>	:	Not available
<b>Log Kow</b>	:	Not available

## section 10 Stability and Reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

### 10.7 Additional information

Not available

**section 11** Toxicological information**11.1 Acute oral toxicity****Mixture:**

The product is classified as an Acute Tox. 5\_ORAL according to the GHS regulation. May be harmful if swallowed.  
ATE "Bio Kill® Extra GT" = 114 583 mg/kg.

**11.2 Acute dermal toxicity****Mixture:**

The product is classified as an Acute Tox. 5\_DERMAL according to the GHS regulation. May be harmful in contact with skin.  
ATE "Bio Kill® Extra GT" = 1 498 959 mg/kg.

**11.3 Acute inhalation toxicity****Mixture:**

The product is classified as an Acute Tox. 5\_INHALATION according to the GHS regulation. May be harmful if inhaled.  
ATE "Bio Kill® Extra GT" = 659 mg/L.

**11.4 Skin corrosion/irritation****Mixture:**

The product is not classified.

**11.5 Serious eye damage/irritation****Mixture:**

The product is not classified.

**11.6 Skin sensitisation****Mixture:**

The product is not classified.

**11.7 Specific target organ toxicity (repeated exposure)****Mixture:**

The product is not classified.

**11.8 Specific target organ toxicity (single exposure)****Mixture:**

The product is not classified.



### 11.9 Carcinogenicity

**Mixture:**

The product is not classified.

### 11.10 Reproductive toxicity

**Mixture:**

The product is not classified.

### 11.11 Germ cell mutagenicity

**Mixture:**

The product is not classified.

### 11.12 Sensitisation to the respiratory tract

**Mixture:**

The product is not classified.

### 11.13 Additional information

Not available

## section 12 Ecological information

### 12.1 Toxicity

**Mixture:**

Based on available data the mixture is very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

**Mixture:**

The product has not been tested.

### 12.3 Bioaccumulative potential

**Mixture:**

The product has not been tested.

### 12.4 Mobility in soil

**Mixture:**

The product has not been tested.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Additional ecotoxicological information

Not available

# section 13 Disposal considerations

## 13.1 Waste treatment methods

### Product/Packaging disposal:

#### Waste treatment options:

#### Appropriate disposal/Product:

Dispose of waste according to applicable legislation.

#### Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

#### Remark:

For recycling, contact manufacturer.

# section 14 Transport information

## 14.1 UN number

UN Number: 3082

## 14.2 UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s

## 14.3 Transport hazard class(es)

9

## 14.4 Packing group

III

#### 14.5 Environmental hazards

Symbol "fish & tree"



#### 14.6 Special precautions for user

Not regulated.

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not regulated.

## section 15 Regulatory information

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

This SDS has been established in accordance with GHS regulation.

#### 15.2 Chemical Safety Assessment

Not available

## section 16 Other information

#### 16.1 Indication of changes

Not applicable (first edition of the MSDS).

#### 16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

GHS: Globally Harmonised System of Classification and Labeling of Chemicals.

#### 16.3 Key literature references and sources for data

No data available.

**16.4 The classification of the mixture is in accordance with the evaluation method described in HazCom 2012**

The classification of the mixture is in accordance with the evaluation method described in the GHS.

**16.5 The classification of the mixture is in accordance with the evaluation method described in the GHS**

H303	Acute Tox. 5 ORAL	May be harmful if swallowed.
H313	Acute Tox. 5 DERMAL	May be harmful in contact with skin.
H333	Acute Tox. 5 INHALATION	May be harmful if inhaled.
H315	Skin Irritation 2.	Causes Skin Irritation
H401	Aquatic Acute 2	Toxic to aquatic life.
H411	Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

**16.6 Training advice**

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet

**16.7 Additional information**

Creation date: 22/09/2022  
Version date: 22/09/2022  
Printing date: 22/09/2022

This Safety Data Sheet has been prepared by Adler Technik (Pty) Ltd. Document protected by Copyright. Any alterations or reproduction requires the expressed permission of Adler Technik. [info@adlertechnik.co.za](mailto:info@adlertechnik.co.za)

The information given in this Safety Data Sheet is based on our present knowledge and on GHS guidelines rev 9. and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.