

Safety Data Sheet

section

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

1.1 Product identifier

Trade name/designation : Bio Kill® Classic.

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

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:

H400	Aquatic Acute 1	Very toxic to aquatic life
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects

2.2 Label elements

Labelling

Hazard pictograms



Signal word

WARNING

Hazard Statements

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Supplemental Hazard information (EU)

EUH208 Contains permethrin. May produce an allergic reaction.

Precautionary Statements - Prevention

P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P314	Get medical advice/attention 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

No data available.

Substance	Concentration (%)	Specific concentration limits	Classification
Permethrin cis:trans 25:75			
m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate			
CAS N°	52645-53-1	C≤ 0.25%	H303 May be harmful if swallowed. H313 May be harmful in contact with skin. H317 May cause an allergic skin reaction. H333 May be harmful if inhaled. H400 Very toxic to aquatic life. H402 Harmful to aquatic life H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects
EC N°	258-067-9		
IDX N°	613-058-00-2		

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:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

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:

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection!

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 (CO₂).

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.
Remove persons to safety.

6.2 Environmental precautions

Ensure that waste is collected and contained.
Avoid release to the environment.
Cover drains.
Ensure all waste water is collected and treated via a waste water treatment plant.
Do not allow to enter into soil/subsoil.
Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
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.
Clean contaminated objects and areas thoroughly observing environmental regulations.
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:

Avoid contact with skin, eyes and clothes.
Sewers and ducts must be protected against the entry of the product.
Provide for retaining containers, eg. floor pan without outflow.

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.

Requirements for storage rooms and vessels:

Use isolated drainage to prevent discharge to soil.

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:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment:



Eye/face protection

: **Suitable eye protection:**
No data available.

Skin protection

: **Hand protection:**
Suitable gloves type:
No data available.
Body protection:
Suitable protective clothing:
Lab coat.

Respiratory protection

: **Suitable respiratory protection apparatus:**
No data available.

Environmental exposure controls:

Not available

section 9 Physical and chemical Properties

9.1 Information on basic physical and chemical properties

Physical state : Liquid
Colour : Aqueous Emulsion: Milky (White)
Odour : Odourless

Odour threshold	: Not available
pH	: 5-6 @ 20 ° C
Melting/Freezing point	: Not available
Boiling point	: Not available
Flash point	: Not available
Evaporation rate	: Not available
Flammability	: Not available
Lower limit of flammability or explosive	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: 0.98 -1.01 g / cm ³ @ 20 ° C
Water solubility	: Miscible
Partition coefficient, n-octanol/water (log Pow)	: Not available
Auto-inflammability temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not available
Explosive properties	: Not available
Oxidising properties	: Not available
Solubility in other Solvents	: Not available
Log Kow	: 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® Classic" = 800 000 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® Classic" = 800 000 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® Classic" = 180 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:

Skin Sens. 1.

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:

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:

Waste requiring special supervision.

Dispose of waste according to applicable legislation.

Delivery to an approved waste disposal company.

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.
Handle contaminated packages in the same way as the substance itself.
Dispose of waste according to applicable legislation.

Remark:

For recycling, contact manufacturer.

Collect the waste separately.

Consult the appropriate authorities about waste disposal.

Do not mix with other wastes.

The waste is to be kept separate from other types of waste until its disposal.

Concerning the waste it has to be checked, whether a transport authorisation is required.

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 available

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

Not available

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.
H317	Skin Sens. 1	May cause an allergic skin reaction.
H333	Acute Tox. 5 INHALATION	May be harmful if inhaled.
H400	Aquatic Acute 1	Very toxic to aquatic life.
H402	Aquatic Acute 3	Harmful to aquatic life
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.
H412	Aquatic Chronic 3	Harmful 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

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The information given in this Safety Data Sheet is based on our present knowledge 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.