SAFETY DATA SHEET



1. Identification

Product name : Mortein Kill & Protect Ant Sand Outdoor

SDS no. : 31289 - SD AU
Formulation # : FF0066154
Supplier : AUSTRALIA

RB (Hygiene Home) Australia Pty Ltd 680 George St , Sydney, NSW 2000

Tel: +61 (0)2 9857 2000

NEW ZEALAND

RB (Hygiene Home) New Zealand Limited

2 Fred Thomas Drive, Takapuna Auckland, New Zealand 0622

Tel: +64 9 484 1400

Poison Information contact: : Australia - 13 11 26

New Zealand - 0800 764 766 or 0800 POISON

<u>Uses</u>

Product use : Pest control Insecticide. Consumer use
UPC Code / Sizes : Cardboard cylinder with plastic cap

2. Hazard identification

Classification of the substance or mixture

: SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements
Hazard pictograms



Signal word : WARNING

Hazard statements : Very toxic to aquatic life with long lasting effects.

Precautionary statements

General : Keep out of reach of children. If medical advice is needed, have product container

or label at hand.

Prevention: Avoid release to the environment. Wash hands thoroughly after handling.

Response : Collect spillage.
Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

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3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
Silica gel, pptd., crystfree	≤3	112926-00-8
bifenthrin (ISO)	≤0.3	82657-04-3
Quartz respirable fraction	<0.1	14808-60-7

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

Occupational exposure limits, if available, are listed in Section 8.

4. First-aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Get medical attention if irritation

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting

unless directed to do so by medical personnel.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Skin contact : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

irritation redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact : No specific data.

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

: Use dry chemical powder.

Unsuitable extinguishing media

 Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Specific hazards arising from the chemical

: May form explosible dust-air mixture if dispersed. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: metal oxide/oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Hazchem code : 2Z

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.

For emergency responders:

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

Methods and material for containment and cleaning up

Small spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

: Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid release to the environment. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

including any incompatibilities

Conditions for safe storage, : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and wellventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

8. Exposure controls/personal protection

Control parameters

Australia

Occupational exposure limits

Ingredient name	Exposure limits
Silica gel, pptd., crystfree	Safe Work Australia (Australia, 12/2019). TWA: 10 mg/m³ 8 hours. Form: Inspirable fraction
Quartz respirable fraction	Safe Work Australia (Australia, 12/2019). [Silica – Crystalline]
	TWA: 0.05 mg/m³ 8 hours. Form: Respirable dust

New Zealand

Occupational exposure limits

Ingredient name	Exposure limits
Silica gel, pptd., crystfree	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Silica-Amorphous: Silica gel] WES-TWA: 10 mg/m³ 8 hours.
crystalline silica, respirable powder	NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [Silica-Amorphous: Silica gel] WES-TWA: 10 mg/m³ 8 hours. NZ HSWA 2015 - GRWM 2016 (New Zealand, 11/2020). [silica-crystalline (α-quartz and cristobalite)] WES-TWA: 0.05 mg/m³ 8 hours. Form: The value for respirable dust.

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8. Exposure controls/personal protection

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Solid. [Granular solid. Powder.]

Colour : Tan. Light brown.

Odour : Sand.

Odour threshold : Not available.
 PH : Not available.
 Melting point/freezing point : Not available.
 Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : Not applicable.

Evaporation rate : Not available.

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9. Physical and chemical properties

Flammability : Not available. Lower and upper explosion

limit/flammability limit

Relative vapour density

Relative density

: Not applicable.

Vapour pressure

: Not available. : Not applicable. : Not available.

Density : 1.4 to 1.6 g/cm3 [25°C (77°F)]

Solubility(ies)

Media	Result
cold water	Not soluble
hot water	Not soluble

Miscible with water : No.

Partition coefficient: n-

octanol/water

Viscosity

: Not applicable.

Auto-ignition temperature Decomposition temperature

: Not applicable. : Not available. : Not applicable.

Particle characteristics

Median particle size : Not available.

10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

Incompatible materials

: Reactive or incompatible with the following materials: oxidising materials

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
bifenthrin (ISO)	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	54.5 mg/kg	-

Conclusion/Summary

Based on available data, the classification criteria are not met.

Irritation/Corrosion

Not available.

Conclusion/Summary

Skin Based on available data, the classification criteria are not met.

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11. Toxicological information

Eyes Based on available data, the classification criteria are not met.

Respiratory Based on available data, the classification criteria are not met.

Sensitisation

3	Route of exposure	Species	Result
bifenthrin (ISO)	skin	Guinea pig	Not sensitizing

Conclusion/Summary

SkinBased on available data, the classification criteria are not met.RespiratoryBased on available data, the classification criteria are not met.

Germ Cell Mutagenicity

Not available.

Conclusion/SummaryBased on available data, the classification criteria are not met.

Carcinogenicity

Not available.

Conclusion/Summary Based on available data, the classification criteria are not met.

Reproductive toxicity

Not available.

Conclusion/SummaryBased on available data, the classification criteria are not met.

Teratogenicity

Not available.

Conclusion/SummaryBased on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
bifenthrin (ISO)	Category 1	-	nervous system
Quartz respirable fraction	Category 1	inhalation	lungs

Aspiration hazard

Not available.

Information on likely routes : Not available.

of exposure

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Potential acute health effects

Eye contact : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the eyes.

Inhalation : Exposure to airborne concentrations above statutory or recommended exposure

limits may cause irritation of the nose, throat and lungs.

Skin contactIngestionNo known significant effects or critical hazards.No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact: Adverse symptoms may include the following:

irritation redness

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11. Toxicological information

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: No specific data.Ingestion: No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential immediate

effects

: Not available.

Potential delayed effects :

: Not available.

Potential chronic health effects

Not available.

Conclusion/SummaryBased on available data, the classification criteria are not met.

General: Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.Germ Cell Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Developmental effects

Not available.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
bifenthrin (ISO)	Acute EC50 >8 mg/l Acute LC50 0.07 μg/l Fresh water	Algae Crustaceans - Ceriodaphnia dubia	72 hours 48 hours
	Acute LC50 0.00016 mg/l Acute LC50 0.00015 mg/l Acute LC50 0.00035 mg/l Chronic NOEC 0.0013 ppb Fresh water	Daphnia Fish Fish - bluegill sunfish Daphnia - Daphnia magna	48 hours 96 hours 96 hours 21 days

Conclusion/Summary Calculation metal

Calculation method: Very toxic to aquatic life with long lasting effects.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

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12. Ecological information

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

	ADG	ADR/RID	IMDG	IATA
UN number	UN3077	UN3077	UN3077	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenthrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenthrin (ISO))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bifenthrin (ISO))	Environmentally hazardous substance, solid, n.o.s. (bifenthrin (ISO))
Transport hazard class(es)	9	9	9	9
Packing group	III	III	III	III
Environmental hazards	Yes.	Yes.	Yes.	Yes.

Additional information

ADG

: The product is not regulated as a dangerous good when transported by road or rail in either an IBC, or in other container types if ≤500 kg. This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. **Special provisions** 274, 331, 335, 375, AU01

Hazchem code ADR/RID

: 27

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Hazard identification number 90

Limited quantity 5 kg

Special provisions 274, 335, 601, 375

Tunnel code (-)

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Transport information 14.

This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2

and 4.1.1.4 to 4.1.1.8. Emergency schedules F-A, S-F

Special provisions 274, 335, 966, 967, 969

IATA

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1,

5.0.2.6.1.1 and 5.0.2.8.

Quantity limitation Passenger and Cargo Aircraft: 400 kg. Packaging instructions: 956. Cargo Aircraft Only: 400 kg. Packaging instructions: 956. Limited Quantities -

Passenger Aircraft: 30 kg. Packaging instructions: Y956. **Special provisions** A97, A158, A179, A197, A215

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according: Not available. to IMO instruments

15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not scheduled

Scheduled Substance(s) Not applicable

Ingredient name	Schedule
crystalline silica, non-respirable	Restricted hazardous chemical [For abrasive blasting at a concentration of greater than 1%]

Australian Inventory of

All components are listed or exempted.

Industrial Chemicals (AIIC) APVMA Number:

60920

ARTG Number:

Not applicable

New Zealand Inventory of

Chemicals (NZIoC)

All components are listed or exempted.

HSNO Group Standard HSNO Approval Number Not applicable. HSR000047

Approved Handler Requirement

No.

Tracking Requirement

No.

16. Other information

Key to abbreviations

ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

RID = The Regulations concerning the International Carriage of Dangerous Goods bv Rail

IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IBC = Intermediate Bulk Container

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

SWA = Safe Work Australia

HSNO = Hazardous Substances and New Organisms Act 1996

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16. Other information

Date of issue / Date of

revision

: 19/02/2024

Version : 3

(Version for updated GHS Revision 7 PSDS Template)

Procedure used to derive the classification

Classification	Justification
, , , , , , , , , , , , , , , , , , , ,	Calculation method Calculation method

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.

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