

# Safety Data Sheet

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BASF Safety Data Sheet

Date / Revised: 14.12.2023

Version: 4.0

Product: **GOLIATH® Cockroach Gel**

(Ref ID no. 30363475/SDS\_GEN\_NZ/EN)

## 1. Identification

### Product identifier

## GOLIATH® Cockroach Gel

### Recommended uses and restrictions on use (if any)

#### Recommended use:

Biocidal product, insecticide.

#### Restricted use:

Use according to label.

### Manufacturer / Supplier

BASF New Zealand Limited  
5E City Works Depot,  
77 Cook Street  
Auckland 1010  
NEW ZEALAND

Phone: + 64 9 255 4300  
0800 932 273

E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

## 2. Hazard Identification

### Classification of the substance or mixture

Aquatic environment - chronic : Category 3  
Hazardous to terrestrial invertebrates

### GHS Label Elements, including Precautionary Statements:

#### Signal Word:

Not required under GHS.

#### Pictograms:

Not required under GHS

GHS Hazard Statements

H412 : Harmful to aquatic life with long lasting effects.  
: Hazardous to terrestrial invertebrates.

GHS Precautionary Statements (Prevention)

P103 : Read label before use.

GHS Precautionary Statements (Response)

P391 : Collect spillage.

GHS Precautionary Statements (Storage)

No specific storage requirements.

GHS Precautionary Statements (Disposal):

P501 : Dispose of contents/container to hazardous or special waste collection point.  
Information regarding disposal considerations can be found in section 13.

**Other hazards**

No other hazards known.

See section 12 - Results of PBT and vPvB assessment.

To avoid risks to human health and the environment, comply with the instructions for use.

If applicable, information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

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### 3. Composition/Information on Ingredients

**Substances**

Not applicable

**Mixtures**Hazardous ingredients (GHS)

According to UN GHS criteria

Fipronil

Content (W/W): 0.05 %

CAS Number: 120068-37-3

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### 4. First-Aid Measures

**Description of necessary first aid measures**General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open,

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

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

#### Symptoms:

Information, i.e. additional information on symptoms and effects may be included in the GHS labelling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further symptoms and / or effects are not known so far.

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

#### Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

#### Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.  
Phone 0800 POISON (0800 764 766).

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## **5. Fire-Fighting Measures**

### **Suitable extinguishing media**

Water spray, dry powder, foam, carbon dioxide

### **Specific hazards**

carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, sulfur oxides, organochloric compounds

The substances/groups of substances mentioned can be released in case of fire.

No specific precautions necessary. The substance is non-combustible. Product is not explosive.

### **Special protective equipment for fire-fighters**

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

### **Precautions for fire-fighters**

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## **6. Accidental Release Measures**

### **Personal precautions, Protective equipment and Emergency procedures**

Do not breathe vapour/spray.  
Use personal protective clothing.  
Avoid contact with the skin, eyes and clothing.

### **Environmental precautions**

Do not discharge into the subsoil/soil.  
Do not discharge into drains/surface waters/groundwater.

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

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.  
Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

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## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

#### Further information on storage conditions:

Keep away from heat. Protect from direct sunlight..

Storage stability: 36 months.

Protect from temperatures above 35°C.

Changes in the properties of the product may occur if substance / product is stored above indicated temperature for extended periods of time.

## 8. Exposure Controls/Personal Protection

### Control parameters

#### Occupational exposure limits

No substance specific occupational exposure limits known.

### Engineering controls

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

#### Respiratory protection:

Respiratory protection not required.

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374-1): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.

#### Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

Form:	Liquid
Colour:	Brown
Odour:	odourless

Odour threshold:	Not applicable; odour not perceivable
pH value:	Approx. 5 - 7 (10 g/l, 21°C)
Melting point:	The product has not been tested
Boiling point:	>100°C
Flash point:	Non-flammable
Evaporation rate:	Not applicable
Flammability (solid/gas):	No dangerous quantities of flammable gases will be produced by contact with water
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	415°C
Vapour pressure:	Approx. 23 hPa (20°C) Information applies to the solvent
Density:	Approx. 1.27 g/cm <sup>3</sup> (20°C)
Relative vapour density (air):	Not applicable
Solubility in water:	Dispersible
Partitioning coefficient n-octanol/water (log Pow):	Not applicable
Thermal decomposition:	120°C, 210 kJ/kg (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, Class 4.1
Explosion hazard:	Not explosive
Fire promoting properties:	Not fire-propagating
Viscosity, dynamic:	30,189 - 30,636 mPa.s (21°C)

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

See SDS section 7 - Handling and storage.

Thermal decomposition: 120°C, 210 kJ/kg (onset temperature)

Thermal decomposition: Not a substance liable to self-decomposition according to UN transport regulations, Class 4.1

### Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Acute toxicity

#### Assessment of acute toxicity:

Of low toxicity after single ingestion. Virtually non-toxic after a single skin contact. Virtually non-toxic by inhalation.

#### Experimental/calculated data:

LD50 rat (oral): 4,400 mg/kg

LC50 rat (by inhalation): The product has not been tested. The statement has been derived from the properties of the individual components.

LC50 rat (by inhalation): 0.36 mg ai/l 4 h, Fipronil  
Tested as an aerosol.

LD50 rat (dermal): >5,000 mg/kg  
No mortality was observed.

### Skin Corrosion / Irritation

#### Assessment of irritating effects:

Not irritating to the skin.

#### Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant

### Serious Eye Damage / Irritation

#### Assessment of irritating effects:

Not irritating to the eyes.

#### Experimental/calculated data:

Serious eye damage/irritation rabbit: non-irritant.

### Respiratory or Skin sensitization

#### Assessment of sensitization:

There is no evidence of a skin-sensitising potential.

#### Experimental/calculated data:

Guinea Pig Maximisation Test: Skin sensitizing effects were not observed in animal studies.

### Germ cell mutagenicity

#### Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

### Carcinogenicity

#### Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

#### Assessment of carcinogenicity:

In long-term studies in rats the substance induced thyroid tumours. The effect is caused by an animal specific mechanism that has no human counterpart. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.

**Reproductive toxicity**Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

**Developmental toxicity**Assessment of teratogenicity:

Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

**Specific target organ toxicity (single exposure)**Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Assessment of repeated dose toxicity:

Causes mortality and signs of neurotoxicity through prolonged or repeated exposure.

**Aspiration hazard**

No aspiration hazard expected. The product has not been tested. The statement has been derived from the properties of the individual components.

**Other relevant toxicity information**

Misuse can be harmful to health.

**12. Ecological Information****Ecotoxicity - Aquatic**Assessment of aquatic toxicity:

Harmful to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h): 0.852 mg ai/l, *Oncorhynchus mykiss*, Fipronil

NOEC (35 d): 0.0029 mg ai/l, *Cyprinodon variegatus*, Fipronil

Aquatic invertebrates:

EC50 (48h): 0.19 mg ai/l (growth rate), *Daphnia magna*, Fipronil

LC50 (96 h): 0.00017 mg ai/l, *Mysidopsis bahia*, Fipronil

NOEC (28 d): 0.000008 mg ai/l, *Mysidopsis bahia*, Fipronil

Aquatic plants:EC50 (72 h): 0.103 mg ai/l, *Scenedesmus subspicatus*, FipronilNOEC (72 h):  $\geq$ 0.14 mg ai/l, *Pseudokirchneriella subcapitata*, FipronilEC50 (14 d):  $>$ 0.16 mg ai/l (biomass), *Lema gibba*, FipronilNOEC (14 d):  $>$ 0.16 mg ai/l (biomass), *Lema gibba*, Fipronil**Ecotoxicity - Terrestrial**Assessment of terrestrial toxicity:

Not classified as hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the properties of the substances/products of a similar structure or composition.

Toxicity to birds:Acute oral LD50: 11.3 mg ai/l, *Colinus virginianus*, FipronilToxicity to soil organisms:LC50 (14d):  $>$ 500 mg ai/kg, *Eisenia fetida*, FipronilToxicity to Pollinators:LD50 (oral): 0.00417  $\mu$ g ai/bee, *Apis mellifera*, FipronilLD50 (contact): 0.0059  $\mu$ g ai/bee, *Apis mellifera*, Fipronil**Persistence and degradability**Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable.

**Bioaccumulative potential**Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Bioaccumulation potential:Bioconcentration factor: 321, *Lepomis macrochirus*

Accumulation in organisms is not to be expected.

**Mobility in soil**Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

**Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.



**Other adverse effects**Other ecotoxicological advice:

Do not discharge product into the environment without control.

Do not apply onto or into water.

**13. Disposal Considerations****Container:**

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Do not use container for any other purpose.

**Product:**

Dispose of this product only by using according to the label or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

Waste product/package may be sent to a suitable incineration plant, observing local regulations.

**Contaminated Packaging:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance / product.

**14. Transport Information****Commercial transport:**

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

**Land / Rail / Road (ADR/RID):**

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Fipronil)
Transport hazard class(es) / UN DG Class:	9, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
HAZCHEM:	3Z
IERG Number:	47
Special precautions when transporting the substance:	None known

**Sea transport (IMDG):**

UN number:	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Fipronil)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	marine pollutant
Marine pollutant:	Yes
Special precautions when transporting the substance:	EmS: F-A; S-F

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**Air transport (IATA / ICAO):**

UN number:	UN3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Fipronil)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes, marine pollutant
Special precautions when transporting the substance:	None known

**Additional Information:**

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 L or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2.10.2.7; IATA: A197; TDG: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3).

**15. Regulatory Information****HSNO Approval Number**

HSR000821

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.**Tolerable Exposure Limit or Environmental Exposure Limit**

TEL:	None set
EEL:	None set

**Relevant Regulatory Requirements**

Qualifications:	Not required
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Not required
Restricted to Workplace:	Not applicable
Controlled substance licence:	Not required

**ACVM Registration**

Exempt from registration under the ACVM Act.

**Ministry for Primary Industries Approvals**

MPI Approved Type B (all animal product except dairy).

MPI approved for use in farm dairies.

MPI recognised for use in dairy processing.

**International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention**

not applicable

**16. Other Information****Date of preparation of the SDS**

14 December 2023

**Key or legend to abbreviations and acronyms used**

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ACGIH	The American Conference of Governmental Industrial Hygienists
ACVM	Agricultural Compounds and Veterinary Medicines
ADN	International Carriage of Dangerous Goods by Inland Waterways (EU)
ADR/RID	Dangerous Goods for Road / Rail
DG	Dangerous Goods
EC50	Median effective concentration
EEL	Environmental Exposure Limit
EHSM	Environmental Health and Safety Management
EPA	Environmental Protection Authority
EU	European Union
GHS	Globally Harmonised System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IERG	International Emergency Response Guide
IMDG	International Maritime Dangerous Goods
LD50	Lethal concentration to 50% of the test population
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OEL	Operator Exposure Limits
PBT or vPvP	Persistent / Bioaccumulative / Toxic or very Persistent / very Bioaccumulative
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TDG	Transportation of Dangerous Goods
TEL	Tolerable Exposure Limit
TLVs	Threshold Limit Values
UN GHS	United Nations Globally Harmonised System
WES	Workplace Exposure Standards
49CFR	Code of Federal Regulations Title 49 for Transportation

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.