We create chemistry

# Safety data sheet



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

**Product identifier**

# GOLIATH® COCKROACH GEL

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

Use: biocide, insecticide

**Details of the supplier of the safety data sheet**

Manufacturer/supplier:
BASF New Zealand Ltd.
5E City Works Depot
77 Cook Street
Auckland Central, Auckland 1010
NEW ZEALAND
Telephone: +64 9 255-4300
Telefax number: +64 9 255-4307

**Emergency telephone number**
National Poisons Centre: 0800 764 766
BASF Emergency Advice Number: 0800 944 955 (24-hour advice in an emergency only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

## 2. Hazards Identification

Classification of the substance or mixture:

Aquatic Chronic 3
Hazardous to terrestrial invertebrates

### Label elements

Label elements and precautionary statement:

Pictogram:
No pictogram.

Signal Word:
No signal word.

Hazard Statement:
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement:
P103 Read label before use.

Precautionary Statements (Disposal):
P501 Dispose of contents and container to hazardous or special waste collection point.

Other hazards which do not result in classification:
See section 12 - Results of PBT and vPvB assessment.
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.

## 3. Composition/Information on Ingredients/Mixtures

Chemical nature

Substance nature: mixture

Biocidal product, insecticide, Bait

Hazardous ingredients

Fipronil

| | |
|---|---|
| Content (W/W): 0.05 % | Acute Tox.: Cat. 2 (Inhalation - dust) |
| CAS Number: 120068-37-3 | Acute Tox.: Cat. 3 (oral) |
| | Acute Tox.: Cat. 3 (dermal) |
| | STOT RE (Central nervous system): Cat. 1 |
| | Aquatic Acute: Cat. 1 |
| | Aquatic Chronic: Cat. 1 |
| | M-factor acute: 1000 |
| | M-factor chronic: 1000 |

## 4. 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.

Note to physician:
Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far
Treatment: Symptomatic treatment (decontamination, vital functions)

## 5. Fire-Fighting Measures

Suitable extinguishing media:
water spray, carbon dioxide, foam, dry powder

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.

Special protective equipment:
Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:
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.

## 6. Accidental Release Measures

Personal precautions:
Use personal protective clothing. Avoid contact with the skin, eyes, and clothing. Do not breathe vapor/spray.

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 labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

Reference to other sections
Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

## 7. Handling and Storage

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.

Protection against fire and explosion:
No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

Storage
Segregate from foods and animal feeds.
Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:
Storage duration: 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

Components with occupational exposure limits

No substance specific occupational exposure limits known.

Personal protective equipment

Respiratory protection:
Respiratory protection not required.

Hand protection:
Suitable chemical resistant safety gloves (EN ISO 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 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
Handle in accordance with good industrial hygiene and safety practice. 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

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|---|---|
| Form: | liquid gel |
| 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 (estimated) |
| Flash point: | Non-flammable. |
| Evaporation rate: | not applicable |
| Flammability (solid/gas): | No dangerous quantities of flammable gases will be produced by contact with water. (Directive 92/69/EEC, A.12) |
| 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 (Directive 92/69/EEC, A.15) |
| Thermal decomposition: | 120 °C, 210 kJ/kg (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1. (DSC (OECD 113)) |
| Explosion hazard: | not explosive (Directive 92/69/EEC, A.14) |
| Fire promoting properties: | not fire-propagating (UN Test O.2 (oxidizing liquids)) |
| Vapour pressure: | approx. 23 hPa (20 °C) Information applies to the solvent. |
| Density: | approx. 1.27 g/cm3 (20 °C) |
| Relative vapour density (air): | not applicable |
| Solubility in water: | dispersible |
| Partitioning coefficient n-octanol/water (log Pow): | not applicable |
| Viscosity, dynamic: | 30,189 - 30,636 mPa.s (21 °C) |

Other Information:
If necessary, information on other physical and chemical parameters is indicated in this section.

## 10. Stability and reactivity

Conditions to avoid:
See SDS section 7 - Handling and storage.

Thermal decomposition: 120 °C, 210 kJ/kg (DSC (OECD 113)) (onset temperature) Not a substance liable to self-decomposition according to UN transport regulations, class 4.1.
Substances to avoid:
strong bases, strong acids, strong oxidizing agents

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

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 nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Experimental/calculated data:
LD50 rat (oral): 4,400 mg/kg (OECD Guideline 401)

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

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

Information on: Fipronil
Experimental/calculated data:
LC50 rat (by inhalation): 0.36 mg/l 4 h (OECD Guideline 403) Tested as dust aerosol.
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Irritation

Assessment of irritating effects:
Not irritating to the eyes. Not irritating to the skin.

Experimental/calculated data:
Skin corrosion/irritation rabbit: non-irritant

Serious eye damage/irritation rabbit: non-irritant

Respiratory/Skin sensitization

Assessment of sensitization:
There is no evidence of a skin-sensitizing potential.

Experimental/calculated data:
Guinea pig maximization test guinea pig: Skin sensitizing effects were not observed in animal studies.

Germ cell mutagenicity

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

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 tumors. The effect is caused by an animal specific mechanism that has no human counter part. In long-term studies in mice in which the substance was given by feed, a carcinogenic effect was not observed.
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Reproductive toxicity

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

Developmental toxicity

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

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

Other relevant toxicity information

Misuse can be harmful to health.

## 12. Ecological Information

Ecotoxicity

Assessment of aquatic toxicity:
Acutely harmful for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Fipronil
Toxicity to fish:
LC50 (96 h) 0.0852 mg/l, Lepomis macrochirus
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Information on: Fipronil
Aquatic invertebrates:
EC50 (48 h) 0.19 mg/l, Daphnia magna

LC50 (96 h) 0.00014 mg/l, Mysidopsis bahia
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Information on: Fipronil
Aquatic plants:
EC50 (96 h) 0.068 mg/l (growth rate), Scenedesmus subspicatus

EC50 (7 d) > 0.16 mg/l (growth rate), Lemna gibba
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Information on: Fipronil
Chronic toxicity to fish:
No observed effect concentration 0.0029 mg/l, Cyprinodon variegatus
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Information on: Fipronil
Chronic toxicity to aquatic invertebrates:
No observed effect concentration (21 d), 0.0098 mg/l, Daphnia magna

No observed effect concentration, 0.000008 mg/l, Mysidopsis bahia

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Mobility

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.
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Persistence and degradability

Assessment biodegradation and elimination (H2O):
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 (H2O): Not readily biodegradable (by OECD criteria).
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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.
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Additional information

Other ecotoxicological advice:
Do not discharge product into the environment without control.

## 13. Disposal Considerations

Waste treatment methods

Must be disposed of in accordance with 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

Domestic transport:

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|---|---|
| Packing group: | III |
| ID number: | UN 3082 |
| Transport hazard class(es): | 9, EHSM |
| Proper shipping name: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains FIPRONIL) |
| Hazchem Code: | 3Z |
| IERG Number: | 47 |

Further 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 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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR000821.
See www.ermanz.govt.nz for approval controls.

| | |
|---|---|
| Qualifications required: | any person mixing, loading, or handling this product must be a qualified person. Refer to the product label for handling precautions and directions for use. |
| Certified Handler: | Not required |
| Tracking: | Not required |
| Record keeping: | Not required |

NOTE: Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

## 16. Other Information

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. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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