

# Safety data sheet

Page: 1/12

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

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

### Product identifier

## GOLIATH GEL

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

Relevant identified uses: biocide

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

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Crop Protection

Telephone: +49 621 60-27777

E-mail address: Produktinformation-Pflanzenschutz@basf.com

### Emergency telephone number

International emergency number:

Telephone: +49 180 2273-112

---

## 2. Hazards Identification

### Label elements

Globally Harmonized System, EU (GHS)

Hazard Statement:

H412

EUH401

Harmful to aquatic life with long lasting effects.

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

BASF Safety data sheet according to Regulation (EC) No. 1907/2006  
Date / Revised: 25.06.2012  
Product: **GOLIATH GEL**

Version: 3.0

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

According to Directive 67/548/EEC or 1999/45/EC

## EEC Directives

## R-phrase(s)

R52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## S-phrase(s)

S2

Keep out of the reach of children.

S13

Keep away from food, drink and animal feeding stuffs.

S20/21

When using do not eat, drink or smoke.

**Classification of the substance or mixture**According to Regulation (EC) No 1272/2008 [CLP]

Aquatic Chronic 3

According to Directive 67/548/EEC or 1999/45/EC

## Possible Hazards:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

For the classifications not written out in full in this section the full text can be found in section 16.

**Other hazards**According to Regulation (EC) No 1272/2008 [CLP]

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

Biocidal product, insecticide, Bait

Hazardous ingredients (GHS)

according to Regulation (EC) No. 1272/2008

---

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

---

Fipronil

Content (W/W): 0.05 %  
CAS Number: 120068-37-3  
EC-Number: 424-610-5  
INDEX-Number: 608-055-00-8Acute Tox. 2 (Inhalation - dust)  
Acute Tox. 3 (oral)  
Acute Tox. 3 (dermal)  
STOT RE (Central nervous system) 1  
Aquatic Acute 1  
Aquatic Chronic 1  
H311, H330, H301, H400, H410, H372Hazardous ingredients

according to Directive 1999/45/EC

Fipronil

Content (W/W): 0.05 %  
CAS Number: 120068-37-3  
EC-Number: 424-610-5  
INDEX-Number: 608-055-00-8  
Hazard symbol(s): T, N  
R-phrases: 23/24/25, 48/25, 50/53

For the classifications not written out in full in this section, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, the full text is listed in section 16.

---

## 4. First-Aid Measures

### Description of first aid measures

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:

Rinse mouth immediately and then drink plenty of water, induce vomiting, seek medical attention.

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

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

---

## 5. Fire-Fighting Measures

### Extinguishing media

Suitable extinguishing media:

water spray, carbon dioxide, foam, dry powder

### Special hazards arising from the substance or mixture

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.

### Advice for fire-fighters

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, protective equipment and emergency procedures

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

### 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.

Protection against fire and explosion:

No special precautions necessary. The substance/product is non-combustible. Product is not explosive.

### **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:

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.

### **Specific end use(s)**

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

---

## **8. Exposure Controls/Personal Protection**

### **Control parameters**

Components with workplace control parameters

No occupational exposure limits known.

### **Exposure controls**

Personal protective equipment

Respiratory protection:

Respiratory protection not required.

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact

(Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other

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).

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

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

### Information on basic physical and chemical properties

Form:	gel	
Colour:	brown	
Odour:	odourless	
Odour threshold:	not determined	
pH value:	approx. 5 - 7 (10 g/l, 21 °C)	
Melting point:	not determined	
Boiling point:	The product has not been tested.	
Flash point:	Non-flammable.	
Evaporation rate:	not applicable	
Flammability:	No dangerous quantities of flammable gases will be produced by contact with water.	(Directive 92/69/EEC, A.12)
Lower explosion limit:	not determined	
Upper explosion limit:	not determined	
Ignition temperature:	415 °C	(Directive 92/69/EEC, A.15)
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 determined	
Solubility in water:	not determined	
Partitioning coefficient n-octanol/water (log Kow):	not applicable	
Thermal decomposition:	not determined	
Viscosity, dynamic:	30,189 - 30,636 mPa.s (21 °C)	
Explosion hazard:	not explosive	(Directive 92/69/EEC, A.14)
Fire promoting properties:	not fire-propagating	(UN Test O.2 (oxidizing liquids))

### Other information

---

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

---

Other Information:

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

---

## 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 MSDS section 7 - Handling and storage.

### Incompatible materials

Substances to avoid:

strong bases, strong acids, strong oxidizing agents

### Hazardous decomposition products

Hazardous decomposition products:

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

---

## 11. Toxicological Information

### Information on toxicological effects

#### 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)

(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:*

---

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

*LC50 rat (by inhalation): 0.36 mg/l 4 h (OECD Guideline 403)*

*Tested as dust aerosol.*

-----  
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.*

-----  
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.

#### 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.*

-----

#### Other relevant toxicity information

Misuse can be harmful to health.

---

## 12. Ecological Information

### Toxicity

#### 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**

-----

##### *Information on: Fipronil*

##### *Aquatic invertebrates:*

*EC50 (48 h) 0.19 mg/l, *Daphnia magna**

*LC50 (96 h) 0.00014 mg/l, *Mysidopsis bahia**

-----

##### *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**

-----

##### *Information on: Fipronil*

##### *Chronic toxicity to fish:*

*No observed effect concentration 0.0029 mg/l, *Cyprinodon variegatus**

-----

*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*

### **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 (by OECD criteria).*

### **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 (and other compartments if available)**

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**

---

BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 25.06.2012

Version: 3.0

Product: **GOLIATH GEL**

(ID no. 30363475/SDS\_GEN\_EU/EN)

Date of print 11.10.2014

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

### **Additional information**

Other ecotoxicological advice:

Do not discharge product into the environment without control.

---

## **13. Disposal Considerations**

### **Waste treatment methods**

Must be disposed of or incinerated 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**

### **Land transport**

ADR

| Not classified as a dangerous good under transport regulations

RID

| Not classified as a dangerous good under transport regulations

### **Inland waterway transport**

ADN

| Not classified as a dangerous good under transport regulations

### **Sea transport**

IMDG

| Not classified as a dangerous good under transport regulations

### **Air transport**

IATA/ICAO

| Not classified as a dangerous good under transport regulations

---

## 15. Regulatory Information

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

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

### Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

## 16. Other Information

Full text of the classifications, including the indication of danger, the hazard symbols, the R phrases, and the hazard statements, if mentioned in section 2 or 3:

T	Toxic.
N	Dangerous for the environment.
23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Acute Tox.	Acute toxicity
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
H311	Toxic in contact with skin.
H330	Fatal if inhaled.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H372	Causes damage to organs (central nervous system) through prolonged or repeated exposure.

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.

Vertical lines in the left hand margin indicate an amendment from the previous version.