



**Material Safety Data Sheet**

**MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL**

MSDS Number: 102000015432  
MSDS Version 1.1  
Revision Date: 09/08/2011  
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**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product name** MAXFORCE® FC MAGNUM ROACH KILLER BAIT GEL  
**MSDS Number** 102000015432  
**Product code (UVP)** 06101320  
**EPA Registration No.** 432-1460  
**Product Use** Insecticide

Bayer Environmental Science  
2 T.W. Alexander Drive  
Research Triangle PK, NC 27709  
USA

For MEDICAL, TRANSPORTATION or other EMERGENCY call: 1-800-334-7577 (24 hours/day)  
For Product Information call: 1-800-331-2867

**SECTION 2. HAZARDS IDENTIFICATION**

*NOTE: Please refer to Section 11 for detailed toxicological information.*

**Emergency Overview** Caution! Harmful if absorbed through skin. Moderate eye irritation. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces. Wash thoroughly with soap and water after handling.

**Physical State** gel

**Odor** characteristic

**Appearance** light brown

**Exposure routes** Eye contact, Skin Absorption, Skin contact, Ingestion

**Immediate Effects**

**Eye** Moderately irritating to the eyes following prolonged direct contact. Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. Moderately irritating to skin following prolonged direct contact. Avoid contact with skin, eyes and clothing.

**Medical Conditions Aggravated by Exposure** No specific medical conditions are known which may be aggravated by exposure to this product.



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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	0.05

**SECTION 4. FIRST AID MEASURES**

<b>General</b>	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
<b>Eye</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
<b>Skin</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
<b>Notes to physician</b>	
<b>Signs and Symptoms</b>	The following symptoms may occur: restlessness anxiety Tremors
<b>Treatment</b>	Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>Flash point</b>	not applicable
<b>Autoignition temperature</b>	no data available
<b>Lower Flammability Limit</b>	no data available
<b>Upper Flammability Limit</b>	no data available



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<b>Fire and Explosion Hazards</b>	In the event of fire the following may be released: Sulphur oxides nitrogen oxides (NOx) Hydrogen fluoride
<b>Suitable extinguishing media</b>	Dry chemical, Foam, Water, Carbon dioxide (CO2)
<b>Fire Fighting Instructions</b>	Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.  In the event of fire and/or explosion do not breathe fumes. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>Personal precautions</b>	Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.
<b>Methods for cleaning up</b>	Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
<b>Additional advice</b>	Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**SECTION 7. HANDLING AND STORAGE**

<b>Handling procedures</b>	Product will stain porous surfaces. Use only in area provided with appropriate exhaust ventilation.  Do not use this product in or on electrical equipment due to the possibility of shock hazard.
<b>Storing Procedures</b>	Keep out of reach of children and animals. Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.
<b>Work/Hygienic Procedures</b>	Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.  Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.



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**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**General Protection** Follow all label instructions. Train employees in safe use of the product.  
  
Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water. Keep and wash PPE separately from other laundry.

**Eye/Face Protection** Protective eyewear

**Hand protection** Chemical resistant nitrile rubber gloves

**Body Protection** Wear long-sleeved shirt and long pants and shoes plus socks.

**Respiratory protection** No personal respiratory protective equipment normally required.

**Exposure Limits**

Fipronil	120068-37-3	OES BCS*	TWA	0.035 mg/m3
		TX ESL	ST ESL	50 ug/m3
		TX ESL	AN ESL	5 ug/m3

\*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** light brown

**Physical State** gel

**Odor** characteristic

**pH** no data available

**Vapor Pressure** no data available

**Vapor Density (Air = 1)** no data available

**Specific Gravity** no data available

**Evaporation rate** no data available

**Boiling Point** no data available

**Melting / Freezing Point** no data available



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<b>Water solubility</b>	soluble
<b>Minimum Ignition Energy</b>	no data available
<b>Decomposition temperature</b>	no data available
<b>Partition coefficient: n-octanol/water</b>	no data available
<b>Viscosity</b>	40,000 - 115,000 cps at 25 °C

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to avoid</b>	Extremes of temperature and direct sunlight. Exposure to moisture.
<b>Incompatibility</b>	Strong oxidizing agents Strong bases Strong acids
<b>Chemical Stability</b>	Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Acute toxicity data have been bridged from a similar formulation containing a slightly higher percentage of the active ingredient, fipronil. The non-acute information pertains to technical-grade active ingredient.

<b>Acute oral toxicity</b>	rat: LD50: > 5,000 mg/kg
<b>Acute dermal toxicity</b>	rat: LD50: > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	rat: LC50: > 2.9 mg/l Exposure time: 4 h
	rat: LC50: > 11.6 mg/l Exposure time: 1 h Extrapolated from the 4 hr LC50.
<b>Skin irritation</b>	rabbit: slight irritation
<b>Eye irritation</b>	rabbit: No eye irritation
<b>Sensitisation</b>	guinea pig: Non-sensitizing.
<b>Chronic toxicity</b>	Fipronil caused liver, kidney or thyroid effects and/or neurobehavioral effects (e.g., tremors) in chronic toxicity studies in rats and dogs. Fipronil did not induce any microscopic lesions in the neural tissues.



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**Assessment Carcinogenicity**

Fipronil has been classified by EPA as a Category C carcinogen based on thyroid tumors in rats only. These tumors are produced by a mechanism which is not relevant to human cancer. Fipronil did not produce an increase in tumor incidence in mice.

**ACGIH**

None.

**NTP**

None.

**IARC**

None.

**OSHA**

None.

**Reproductive toxicity**

**REPRODUCTION:** Fipronil was not considered a primary reproductive toxicant in rats.

**DEVELOPMENTAL TOXICITY:** Fipronil was not a developmental toxicant in rats and rabbits.

**Assessment neurotoxicity**

Fipronil caused transient neurobehavioral effects (e.g., tremors) in neurotoxicity studies in rats. Delays in developmental landmarks were observed in rats at maternally toxic doses.

**Mutagenicity**

Fipronil was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

**SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity to fish**

Oncorhynchus mykiss (rainbow trout)  
LC50: 0.25 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient fipronil.

**Toxicity to aquatic plants**

Scenedesmus subspicatus  
EC50: 0.068 mg/l  
Exposure time: 96 h  
The value mentioned relates to the active ingredient fipronil.

**Acute Toxicity to Aquatic Invertebrates**

Water flea (Daphnia magna)  
EC50: 0.19 mg/l  
Exposure time: 48 h  
The value mentioned relates to the active ingredient fipronil.

**Environmental precautions**

Do not allow to get into surface water, drains and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.



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**SECTION 13. DISPOSAL CONSIDERATIONS**

- General Disposal Guidance** It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Never place unused product down any indoor or outdoor drain.
- Container Disposal** Do not re-use empty containers. Place empty container in trash. Follow advice on product label and/or leaflet.
- RCRA Information** Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

**SECTION 14. TRANSPORT INFORMATION**

According to national and international transport regulations this material is not classified as dangerous goods / hazardous material.

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1460

**US Federal Regulations**

**TSCA list**

None.

**US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)**

None.

**SARA Title III - Section 302 - Notification and Information**

None.

**SARA Title III - Section 313 - Toxic Chemical Release Reporting**

None.

**US States Regulatory Reporting**

**CA Prop65**

This product does not contain any substances known to the State of California to cause cancer.

This product does not contain any substances known to the State of California to cause reproductive harm.

**US State Right-To-Know Ingredients**

None.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.



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**Environmental**

**CERCLA**

None.

**Clean Water Section 307 Priority Pollutants**

None.

**Safe Drinking Water Act Maximum Contaminant Levels**

None.

**SECTION 16. OTHER INFORMATION**

NFPA 704 (National Fire Protection Association):

Health - 1      Flammability - 1      Instability - 0      Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 1      Flammability - 1      Physical Hazard - 0      PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: Reviewed and updated for general editorial purposes. The following sections have been revised: Section 12. Ecological information

Revision Date: 09/08/2011

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