



**Material Safety Data Sheet**

**MAXFORCE® FC PROFESSIONAL INSECT CONTROL™  
ANT KILLER BAIT GEL**

MSDS Number: 102000005030  
MSDS Version 2.0  
Revision Date: 12/12/2007

**SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

**Product Name** MAXFORCE® FC PROFESSIONAL INSECT CONTROL™ ANT KILLER BAIT GEL  
**MSDS Number** 102000005030  
**EPA Registration No.** 432-1264

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. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	0.001

**SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** Caution! May be harmful if swallowed. Avoid contact with skin, eyes and clothing. Keep exposed gel away from open food and food contact surfaces. Hazard to humans and domestic animals. Keep out of reach of children and animals.

**Physical State** gel

**Odor** sweet

**Appearance** amber

**Routes of Exposure** Ingestion, Skin contact, Eye contact

**Immediate Effects**

**Eye** May cause mild irritation to eyes. Avoid contact with eyes.

**Skin** Mild skin irritation. Avoid contact with skin and clothing.

**Ingestion** May be harmful if swallowed. Do not take internally.

**Chronic or Delayed Long-Term**

This product or its components may have target organ effects. This product or its components may have long term (chronic) health effects.



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

**SECTION 4. FIRST AID MEASURES**

**General** When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

**Eye** 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.

**Skin** 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.

**Ingestion** 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.

**Inhalation** 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.

**Notes to Physician Treatment** There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

**SECTION 5. FIRE FIGHTING MEASURES**

**Flash point** 93.4 °C / 200.1 °F

**Suitable Extinguishing Media** Water, Foam, Carbon dioxide (CO2), Dry chemical

**Fire Fighting Instructions** Keep out of smoke. Fight fire from upwind position. Cool closed containers/ tanks exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**



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- Personal Precautions** Isolate hazard area. Keep unauthorized people away. Avoid contact with spilled product or contaminated surfaces.
- Methods for Cleaning Up** Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.
- Additional Advice** Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

**SECTION 7. HANDLING AND STORAGE**

- Handling Procedures** Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.  
  
Product will stain porous surfaces.  
  
Do not use this product in or on electrical equipment due to the possibility of shock hazard.
- Storing Procedures** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of reach of children and animals.
- Work/Hygienic Procedures** Keep away from food, drink and animal feedingstuffs.  
  
Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
- Min/Max Storage Temperatures** Recommended maximum transport/storage temperature: 27 °C / 81 °F  
The 30-day storage temperature average must not exceed the recommended maximum.

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

- General Protection** There are no known hazards associated with this product when used according to the label directions. The following guidelines should be followed.  
  
Avoid contact with skin and eyes.  
  
Follow all label instructions. Train employees in safe use of the product.

**Exposure Limits**

Fipronil	120068-37-3	OES BCS*		0.035 mg/m3
Sucrose	57-50-1	ACGIH	TWA	10 mg/m3
		NIOSH	REL	5 mg/m3
		Form of exposure	Respirable.	



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NIOSH	REL		10 mg/m3
Form of exposure		Total	
OSHA Z1	PEL		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1	PEL		15 mg/m3
Form of exposure		Total dust.	
OSHA Z1A	TWA		5 mg/m3
Form of exposure		Respirable fraction.	
OSHA Z1A	TWA		15 mg/m3
Form of exposure		Total dust.	
US CA OEL	TWA PEL		5 mg/m3
Form of exposure		Respirable fraction.	
US CA OEL	TWA PEL		10 mg/m3
Form of exposure		Total dust.	

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance</b>	amber
<b>Physical State</b>	gel
<b>Odor</b>	sweet
<b>pH</b>	4.5 - 5.5
<b>Density</b>	1.27 g/cm <sup>3</sup>
<b>Melting / Freezing Point</b>	60 °C / 140 °F

**SECTION 10. STABILITY AND REACTIVITY**

<b>Conditions to Avoid</b>	Extremes of temperature and direct sunlight. Exposure to moisture.
<b>Incompatibility</b>	Strong bases Strong acids Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Thermal decomposition Nitrogen oxides (NOx) Sulphur oxides Hydrogen fluoride (HF) Carbon oxides Hydrogen chloride (HCl)



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**Hazardous Reactions**      Stable under recommended storage 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.

- Acute Oral Toxicity**              rat: LD50: > 5,000 mg/kg
- Acute Dermal Toxicity**        rat: LD50: > 5,000 mg/kg
- Skin Irritation**                 rabbit: Slight irritation.
- Eye Irritation**                 rabbit: Minimally irritating.
- Sensitization**                 guinea pig: Non-sensitizing.
- Chronic Toxicity**              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.

**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 & Developmental Toxicity**      REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats.  
  
DEVELOPMENTAL TOXICITY: Fipronil was not a developmental toxicant in rats and rabbits.
- 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.



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**SECTION 12. ECOLOGICAL INFORMATION**

**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.

**SECTION 13. DISPOSAL CONSIDERATIONS**

**General Disposal Guidance** Follow container label instructions for disposal of wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

**Container Disposal** Do not re-use empty containers. Place empty container in trash.

**SECTION 14. TRANSPORT INFORMATION**

DOT CLASSIFICATION:  
Not regulated for Domestic Surface Transportation

FREIGHT CLASSIFICATION:  
Insecticides or Fungicides, N.O.I., other than poison

**SECTION 15. REGULATORY INFORMATION**

**EPA Registration No.** 432-1264

**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**



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None.

**Canadian Regulations**

**Canadian Domestic Substance List**

None.

**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      Reactivity - 0      Others - none

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

Reason to Revise: Updated for general editorial purposes. Updated due to new system and numbering scheme.

Revision Date: 12/12/2007

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