# Material Safety Data Sheet

## MAXFORCE® FC SELECT PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL

MSDS Number: 102000005017
MSDS Version 2.1
Revision Date: 12/12/2007

## SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name** MAXFORCE® FC SELECT PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL
**MSDS Number** 102000005017
**EPA Registration No.** 432-1259

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

| Hazardous Component Name | CAS-No. | Average % by Weight |
|---|---|---|
| Fipronil | 120068-37-3 | 0.01 |

## SECTION 3. 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. Hazard to humans and domestic animals. Keep out of reach of children and animals.

**Physical State** gel

**Odor** sweet

**Appearance** dark brown

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

**Immediate Effects**

**Eye** Moderate eye irritation may occur. Avoid contact with eyes.

**Skin** Harmful if absorbed through skin. May be minimally irritating following prolonged direct contact. Avoid contact with skin and clothing.

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| **Ingestion** | 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. |
| **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

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| **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

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| **Fire and Explosion Hazards** | Dangerous gases are evolved in the event of a fire. |
| **Suitable Extinguishing Media** | Dry chemical, Foam, Water, Carbon dioxide (CO2) |

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| **Fire Fighting Instructions** | Keep out of smoke. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses.<br><br>Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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| **Personal Precautions** | Keep unauthorized people away. Isolate hazard area. 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

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| **Handling Procedures** | Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.<br><br>Product will stain porous surfaces.<br><br>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.<br><br>Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. |

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

**Exposure Limits**

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|---|---|---|---|---|
| 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. |
| | | 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

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| **Appearance** | dark brown |
| **Physical State** | gel |
| **Odor** | sweet |

## SECTION 10. STABILITY AND REACTIVITY

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

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| | Sulphur oxides |
| **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.

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| **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.

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| **Reproductive & Developmental Toxicity** | REPRODUCTION: Fipronil was not considered a primary reproductive toxicant in rats.<br><br>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. |

## SECTION 12. ECOLOGICAL INFORMATION

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| **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

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| **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** | Wrap and discard in trash. Follow advice on product label and/or leaflet. |

## SECTION 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:
Not Regulated for Transportation

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

## SECTION 15. REGULATORY INFORMATION

**EPA Registration No.** 432-1259

**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.

**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 Section 11: Toxicological Information. Updated for general editorial purposes.

Revision Date: 12/12/2007

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