



Material Safety Data Sheet

**MAXFORCE® FC PROFESSIONAL INSECT CONTROL®
ROACH KILLER BAIT GEL**

MSDS Number: 102000019405
MSDS Version 1.1
Revision Date: 11/16/2010

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product name MAXFORCE® FC PROFESSIONAL INSECT CONTROL® ROACH KILLER BAIT GEL
MSDS Number 102000019405
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. HAZARDS IDENTIFICATION

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

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

Physical State gel

Appearance brown

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

Immediate Effects

Eye Moderate eye irritation. Avoid contact with eyes.

Skin May cause slight irritation. Harmful if absorbed through skin. Avoid contact with skin and clothing.

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.



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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	0.01
1,2-Propanediol	57-55-6	1.50
1,2-Benzisothiazol-3(2H)-one	2634-33-5	0.10

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

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media	Dry chemical, Foam, Water, Carbon dioxide (CO2)
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. Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

- 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.

SECTION 7. HANDLING AND STORAGE

- Handling procedures** Product will stain porous surfaces. Use only in area provided with appropriate exhaust ventilation.

- Storing Procedures** Keep away from direct sunlight. Keep out of reach of children and animals. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed.

- 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.

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** Skin contact should be prevented.
Wear long-sleeved shirt and long pants and shoes plus socks.

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

- Exposure Limits**



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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
1,2-Propanediol	57-55-6	WEEL	TWA	10 mg/m3
		TX ESL	ST ESL	20 ug/m3
		TX ESL	ST ESL	500 ppm
		TX ESL	AN ESL	2 ug/m3
		TX ESL	AN ESL	50 ppm
1,2-Benzisothiazol-3(2H)-one	2634-33-5	TX ESL	ST ESL	350 ug/m3
		TX ESL	AN ESL	35 ug/m3

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	brown
Physical State	gel

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	Extremes of temperature and direct sunlight. Exposure to moisture.
Chemical Stability	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.

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.
Sensitisation	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



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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 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.



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Environmental precautions Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. 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

Container Disposal Wrap and discard 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. 432-1259

US Federal Regulations

TSCA list

1,2-Propanediol 57-55-6
1,2-Benzisothiazol-3(2H)-one 2634-33-5

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

1,2-Propanediol 57-55-6 MN, RI



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Canadian Regulations

Canadian Domestic Substance List

1,2-Propanediol	57-55-6
1,2-Benzisothiazol-3(2H)-one	2634-33-5

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)

1,2-Benzisothiazol-3(2H)-one	2634-33-5
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SECTION 16. OTHER INFORMATION

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 1 Reactivity - 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: Updated for general editorial purposes. The following sections have been revised:
Section 3: Composition / Information on Ingredients. Section 14: Transport Information.

Revision Date: 11/16/2010

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