



Bayer Environmental Science

MAXFORCE[®] PROFESSIONAL INSECT CONTROL[®] ROACH KILLER BAIT GEL

ROACH KILLER BAIT GEL (RESERVOIR)
FOR USE IN COMMERCIAL, INDUSTRIAL AND RESIDENTIAL AREAS

ACTIVE INGREDIENT:

Hydramethylnon: tetrahydro-5, 5-dimethyl-2(1H)-pyrimidinone, (3-(4-(trifluoromethyl) phenyl)-1-(2-(4-(trifluoromethyl) phenyl) ethenyl)-2-propenylidene) hydrazone.....2.15%
Inert Ingredients:97.85%
TOTAL:100.00%

CONTAINS: 4 pre-filled plastic reservoirs

EPA REG NO.: 432-1254

EPA EST NO 65335-RI-001 OR 071106-GA-001

U.S. Patent Nos. 4,163,102; 4,213,988; 4,191,768; Other Patent Pending 07072-200

CAUTION: KEEP OUT OF REACH OF CHILDREN

USE ONLY IN AREAS NOT EASILY ACCESSIBLE TO CHILDREN AND PETS.

Products may stain textiles and clothing.

FIRST AID

IF ON SKIN:	-Take off contaminated clothing. -Rinse skin immediately with plenty of water for 15-20 minutes. -Call a poison control center or doctor for treatment advice.
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Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-334-7577 for emergency.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

Personal Protective Equipment (PPE)

Applicators and handlers must wear;

-Shoes plus socks

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for Washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container in a cool, dry area (out of reach of children). Keep container closed when not in use.

Avoid contamination with other insecticides.

DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused products down any indoor or outdoor drain.

GENERAL INFORMATION

General Precautions and Restrictions

MAXFORCE® Professional Insect Control® Roach Killer Bait Gel may be used as a spot or crack and crevice treatment for the indoor and outdoor control of cockroaches in residential areas and the non-food/non-feed areas of institutional, warehousing and commercial establishments, including warehouses, restaurants, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, sewers, "aircraft", buses, boats/ships, trains, pet shops and zoos. Non-food/non-feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). This product may also be used in food areas of food/feed handling establishments as outlined below.

APPLICATION INSTRUCTIONS:

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Applications in Food/Feed Handling Establishments: Application within food/feed areas of food/feed handling establishments is limited to crack and crevice treatment only. Apply with MAXFORCE® Professional Insect Control® Roach Killer Bait Gel Injector directly into cracks and crevices. Place applicator tip 1/2 inch into cracks, crevices, holes and other small openings where roaches may be a problem. Apply small amounts of gel (up to 1/2 gram) per spot. Do not apply bait to areas where food/feed, food utensils or food processing surfaces may become contaminated. Do not apply bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait may be removed by washing. Do not apply bait to surfaces where the temperature exceeds 130°F as bait may run. Examples include, but are not limited to, portions of stoves, ovens, grills, fume hoods, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers and hot water pipes. Care should be taken to avoid depositing gel onto exposed surfaces. If gel contacts an exposed surface, remove gel and wash exposed surface.

Food/feed areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

Apply bait in small amounts between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, behind and under refrigerator, cabinets, sinks, closets, stoves and other equipment where cockroaches hide. During follow-up visits inspect bait placements and reapply when necessary. **Application of this product in food/feed areas of food/feed handling establishments other than as a crack and crevice treatment is not permitted.**

Do not treat food preparation surfaces. Do not apply bait gel to areas which have been recently sprayed with insecticide, and do not spray insecticide over gel as it may cause the bait to become repellent.

USDA: Authorized by USDA for use in Federally inspected meat, poultry, and shell egg grading plants.

Approved F2: Residual pesticide.

MAXFORCE® Professional Insect Control® Roach Killer Bait Gel is packaged in a plastic reservoir containing 30g. (1.05 oz) of bait. Application rate is dependent on level of infestation and species to be controlled. Bait can be applied as spots or as a bead in cracks and crevices. The lower application rate should be used for low to moderate infestations or re-treatments and the higher rate for more severe infestations or where the population occurs in inaccessible areas, such as in walls. Gel placements should be at or near harborage or aggregation areas, such as corners, areas of movement or cracks and crevices. Numerous smaller placements will provide faster control than fewer larger spots, especially for German cockroach control.

SPECIES/LEVEL OF INFESTATION	APPLICATION RATE (PER SQ. YD.)
MODERATE INFESTATIONS OR RETREATS FOR GERMAN OR BROWN-BANDED ROACHES:	1-2 SPOTS ABOUT THE SIZE OF THE GEL SYRINGE CAP OR 1 1/2"-3" BEAD
SEVERE OR HEAVY INFESTATIONS FOR GERMAN OR BROWN-BANDED ROACHES	2-4 SPOTS ABOUT THE SIZE OF THE GEL SYRINGE CAP OR 3"-6" BEAD
LARGE ROACHES SUCH AS AMERICAN, SMOKEY-BROWN OR ORIENTAL:	(Actual size syringe cap) RECOMMENDED SPOT SIZE (1/4 – 1/2 g.)

For outdoor use: Place in areas adjacent to structures where roaches may rest or breed. Apply bait to potential points of insect entry, such as eaves, sills, and expansion joints. Apply bait in protected areas whenever possible. Environmental stresses such as direct sunlight and water will reduce the residual effectiveness. Priority treatment areas may be identified by visual inspection of such areas listed above or aided by trapping techniques or spot flushing.

Refillable Stations: This product may be used in the Maxforce Refillable Bait Station or B&G Perimeter Patrol Station. Place 0.5 to 5 grams of product per station. Refillable stations should be placed every 20 to 30 feet around the perimeter of a structure. Use approximately 2 stations per side of a typical single family home.

For best results, place stations near: air conditioning units, water faucets, foundation vents and weep holes, decks, utility entryways (e.g. electrical, cable TV) and wherever cockroaches are frequently found.

Regularly inspect all stations and replace bait as needed for continual control.

Position Refillable Bait Stations in areas where they will not be damaged by lawn equipment such as mowers and trimmers. When placing the station in turf remove sod layer and place station base plate against the soil.

If the station is not equipped with a sticker to identify the contents, apply a sticker to the outside or inside of the station.

Directions for loading reservoirs and operation: On the handle of the drive rod, point the arrow facing up. Pull the drive rod as far as it will go. Attach a pre-filled reservoir of MAXFORCE® Professional Insect Control® Roach Killer Bait Gel to the Bait injector with a twist-locking movement. Remove the reservoir outlet cap and attach the dispensing tip. Push the drive rod until the drive plunger seats against the piston in the reservoir of gel. Turn drive rod knob until teeth are facing down and engaging trigger mechanism (arrow down). Gently squeeze the trigger until the gel flows out. The bait will adhere to non-greasy or non-dusty surfaces and will remain pliable and palatable to cockroaches as long as it is visibly present. Reapply when bait is no longer visibly present according to the remaining level of infestation, which is generally at a lower rate than the initial treatment. A visual inspection of bait placement is recommended at one month after the initial treatment. Reapplication should occur if the bait is visibly depleted. Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

Directions for changing reservoirs: With the arrow on the drive rod pointing up, pull the drive rod out as far as it will go. Remove the empty reservoir, wrap, and place in trash can. Reservoirs that still contain gel can be sealed with the end cap and outlet cap for future use. To attach a new reservoir follow the above directions.

Pest population reduction will be apparent within a week or less.

Contains 4 pre-filled plastic reservoirs

TOTAL NET WEIGHT 120 g. (4.2 oz.)

Four 30 g. (1.05 oz.) reservoirs



Bayer Environmental Science
A Business Group of Bayer CropScience LP
PO Box 12014, 2 T. W. Alexander Drive
Research Triangle Park, NC 27709

MAXFORCE[®]

PROFESSIONAL INSECT CONTROL[®]

ROACH KILLER BAIT GEL

ROACH KILLER BAIT GEL (TRIPLE)
FOR USE IN COMMERCIAL, INDUSTRIAL AND RESIDENTIAL AREAS

Hydramethylnon: tetrahydro-5, 5-dimethyl-2(1H)-pyrimidinone, (3-(4-(trifluoromethyl) phenyl)-1-(2-(4-(trifluoromethyl) phenyl) ethenyl)-2-propenylidene) hydrazone.....2.15%
 Inert Ingredients:97.85%
 TOTAL:100.00%

CONTAINS: 3 pre-filled plastic dispensers

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CAUTION

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Applicators and handlers must wear;

-Shoes plus socks

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User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

STORAGE AND DISPOSAL

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STORAGE: Store in original container in a cool, dry area (out of reach of children). Keep container closed when not in use. Avoid contamination with other insecticides.

DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused products down any indoor or outdoor drain.

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USDA: Authorized by USDA for use in Federally inspected meat, poultry, and shell egg grading plants.
Approved F2: Residual pesticide.

MAXFORCE® Gel is packaged in a plastic reservoir containing 2.1 oz (60g.) of bait. Application rate is dependent on level of infestation and species to be controlled. Bait can be applied as spots or as a bead in cracks and crevices. The lower application rate should be used for low to moderate infestations or re-treatments and the higher rate for more severe infestations or where the population occurs in inaccessible areas, such as in walls. Gel placements should be at or near harborages or aggregation areas, such as corners, areas of movement or cracks and crevices. Numerous smaller placements will provide faster control than fewer larger spots, especially for German cockroach control.

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MODERATE INFESTATIONS OR RETREATS FOR GERMAN OR BROWN-BANDED ROACHES:	1-2 SPOTS ABOUT THE SIZE OF THE GEL SYRINGE CAP OR 1 1/2"-3" BEAD
SEVERE OR HEAVY INFESTATIONS FOR GERMAN OR BROWN-BANDED ROACHES	2-4 SPOTS ABOUT THE SIZE OF THE GEL SYRINGE CAP OR 3"-6" BEAD
LARGE ROACHES SUCH AS AMERICAN, SMOKEY-BROWN OR ORIENTAL:	(Actual size syringe cap) RECOMMENDED SPOT SIZE (1/4 – 1/2 g.)

For outdoor use: Place in areas adjacent to structures where roaches may rest or breed. Apply bait to potential points of insect entry, such as eaves, sills, and expansion joints. Apply bait in protected areas whenever possible. Environmental stresses such as direct

sunlight and water will reduce the residual effectiveness.

Priority treatment areas may be identified by visual inspection of such areas listed above or aided by trapping techniques or spot flushing.

Refillable Stations: This product may be used in the Maxforce Refillable Bait Station or B&G Perimeter Patrol Station. Place 0.5 to 5 grams of product per station. Refillable stations should be placed every 20 to 30 feet around the perimeter of a structure. Use approximately 2 stations per side of a typical single family home.

For best results, place stations near: air conditioning units, water faucets, foundation vents and weep holes, decks, utility entryways (e.g. electrical, cable TV) and wherever cockroaches are frequently found.

Regularly inspect all stations and replace bait as needed for continual control.

Position Refillable Bait Stations in areas where they will not be damaged by lawn equipment such as mowers and trimmers. When placing the station in turf remove sod layer and place station base plate against the soil.

If the station is not equipped with a sticker to identify the contents, apply a sticker to the outside or inside of the station.

Directions for loading reservoirs and operation: On the handle of the drive rod, point the arrow facing up. Pull the drive rod as far as it will go. Attach a pre-filled reservoir of MAXFORCE® Gel to the Bait injector with a twist-locking movement. Remove the reservoir outlet cap and attach the dispensing tip. Push the drive rod until the drive plunger seats against the piston in the reservoir of gel. Turn drive rod knob until teeth are facing down and engaging trigger mechanism (arrow down). Gently squeeze the trigger until the gel flows out. The bait will adhere to non-greasy or non-dusty surfaces and will remain pliable and palatable to cockroaches as long as it is visibly present. Reapply when bait is no longer visibly present according to the remaining level of infestation, which is generally at a lower rate than the initial treatment. A visual inspection of bait placement is recommended at one month after the initial treatment. Reapplication should occur if the bait is visibly depleted. Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

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Contains 3 pre-filled plastic dispensers

TOTAL NET WEIGHT 6.3 oz. (180 g.)



Bayer Environmental Science
A Business Group of Bayer CropScience LP
PO Box 12014, 2 T. W. Alexander Drive
Research Triangle Park, NC 27709

01/01/04



Material Safety Data Sheet

MSDS Number: 102000019405
MSDS Version 1.0

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

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

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.



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MSDS Number: 102000019405

MSDS Version 1.0

Revision Date: 10/04/2007

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. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Fipronil	120068-37-3	0.01
Starch	9005-25-8	1.00

SECTION 3. 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

Routes of Exposure 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.



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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 pesticides, 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.

Exposure Limits

1,2-Propanediol	57-55-6	WEEL	TWA		10 mg/m3
		Form of exposure		Aerosol.	
Starch	9005-25-8	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



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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.
Z3	TWA	15 millions of particles per cubic foot of air
Form of exposure		Respirable fraction.
Z3	TWA	50 millions of particles per cubic foot of air
Form of exposure		Total dust.
Z3	TWA	5 mg/m3
Form of exposure		Respirable fraction.
Z3	TWA	15 mg/m3
Form of exposure		Total dust.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State gel

SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid Extremes of temperature and direct sunlight.
Exposure to moisture.

Hazardous Reactions 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.



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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

Starch

9005-25-8

Group A4

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.

SECTION 12. ECOLOGICAL INFORMATION

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.



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Safe Drinking Water Act Maximum Contaminant Levels
None.

International Regulations

European Inventory of Existing Commercial Substances (EINECS)
Starch 9005-25-8

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: 10/04/2007

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.