

TechPac, LLC.
P.O. Box 24830 Lexington, KY 40504
Material Safety Data Sheet

GardenTech Over'n Out Fire Ant Killer Granules		
This product is used by Homeowners and Professionals		
MSDS NO. GT- 28	Oct. 2001	Product Codes: 8000

SECTION 1 – CHEMICAL PRODUCT & COMPANY INFORMATION

Product Name: GardenTech Over'n Out Fire Ant Killer Granules

Chemical Name: FIPRONIL: 5-amino-1-(2,6-dichloro-4-(trifluoromethyl) phenyl)-4-((1, R, S)-(trifluoromethyl)sulfinyl)-1-H-pyrazole-3-carbonitrile

Synonym: FIPRONIL

EPA Reg. No.: 432-1225-71004

Registrant: TechPac, LLC.
P.O. Box 24830
Lexington, KY 40504

For Product Use: 800-969-7200

For Emergency Information: 800-424-9300

Product Use Description: This product is for the control of imported fire ants on residential lawns.
FIFRA regulated use only in label designated states.

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Component Name	CAS No.	Concentration % By Weight	
		Minimum	Maximum
Fipronil	120068-37-3	0.0103	
Other Ingredients (Trade Secret)		99.9897	

SECTION 3 – HAZARDS IDENTIFICATION

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

Emergency Overview: Warning Statements: CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
KEEP OUT OF REACH OF CHILDREN
Harmful if absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Wear long-sleeved shirt and long pants and shoes plus socks.

Odor: odorless

Appearance: grey granules solid

Immediate Effects

Eyes Causes moderate eye irritation. Avoid contact with eyes or clothing.
Wash thoroughly with soap and water after handling.

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SECTION 3 – HAZARDS IDENTIFICATION

Skin	Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. May produce symptoms similar to those from ingestion.
Ingestion	Harmful if swallowed. Wash thoroughly with soap and water after handling. May cause shortness of breath, involuntary shaking, convulsions, excitement.
Inhalation	Harmful if inhaled. Avoid breathing in dust. May produce symptoms similar to those from ingestion. Remove contaminated clothing and wash clothing before reuse. May cause shortness of breath, excitement, involuntary shaking, convulsions, irritability.
Chronic or Delayed Long-Term	This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens.
Medical Conditions Aggravated by Exposure	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.
Signs & Symptoms	In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and, in extreme cases, possibly convulsions, may occur.

SECTION 4 – FIRST AID MEASURES

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 poison control center or doctor for treatment advice.
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.
Ingestion	Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation	Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, if available. If victim is not breathing, administer CPR (cardio-pulmonary resuscitation). Seek medical attention.
Note to Physician	There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

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SECTION 5 – FIRE FIGHTING MEASURES

Flash Point	Not Applicable
Fire & Explosion Hazards	Product will burn under fire conditions
Suitable Extinguishing Media	Recommended (small fires): dry chemical, carbon dioxide Recommended (large fires): foam, water spray
Fire Fighting Instructions:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

General & Disposal	Evacuation Procedures and Safety: Wear appropriate protective gear for the situation. See Personal Protective information in Section 8. Cleanup and Disposal of Spill: Sweep up spilled granules, transfer to a marked container, and dispose of wastes on site or at an approved waste disposal facility.
Land Spill or Leaks	Containment of Spill: Follow procedures described below under Cleanup and Disposal of Spill. Environmental and Regulatory Reporting: If spilled on the ground, the affected area should be scraped clean and placed in an appropriate container for disposal. Prevent material from entering public sewer system or any waterways.

SECTION 7 – HANDLING AND STORAGE

Handling Procedures	Avoid direct or prolonged contact with skin and eyes. Avoid breathing dusts.
Storing Procedures	Do not contaminate water, food, or feed by storage or disposal. Do not store in or around the home. Store unused product in original container only, out of reach of children and animals. NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

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SECTION 7 – HANDLING AND STORAGE

Work/Hygienic
Procedures

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

*Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

*Wash hands and face carefully before eating, drinking, chewing gum, using tobacco, applying cosmetics, or using the toilet.

*Wash exposed skin promptly to remove accidental splashes of contact with this material.

*Remove clothing immediately if pesticide gets inside. Then wash body thoroughly and put on clean clothing.

*Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Min/Max Storage
Temperatures

Not Available

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust, ventilation at point of generation.

Eye/Face Protection

Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

It is generally regarded as good practice to wear minimum of safety glasses with side shields when working in industrial environments.

Body Protection

Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e. shirts and pants) shoes plus socks. Consideration must be given both to durability as well as permeation resistance.

Respiratory
Protection

When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. Under conditions immediately dangerous to life or health, or emergency conditions with unknown concentrations, use a full-face positive pressure air-supplied respirator with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

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SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

General Protection	These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.
Exposure Limits	None Established

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	grey granules solid
Odor	odorless
PH	4.7 at 1 wt/wt%
Vapor Pressure	Not Available
Vapor Density (air = 1)	Not Available
Specific Gravity	Not Available
Density	1.79 g/ml at 20° C
Boiling Point	Not Available
Melting/Freezing Point	Melting Point Range: Not Available
Solubility (in water)	dispersible
Decomposition Temperature	240° C
Other Information	Physical and chemical properties here represent typical properties of this product. Contact the business area using the Product Information phone number in Section 1 for its exact specifications.

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SECTION 10 – STABILITY AND REACTIVITY

Chemical Stability	This material is stable under normal handling and storage conditions described in Section 7.
Conditions To Avoid	Direct sunlight Extreme heat
Incompatibility	Strong bases Strong acids Strong oxidizing agents
Hazardous Products of Decomposition	Decomposition type: Thermal hydrogen chloride hydrogen fluoride oxides of nitrogen oxides of sulfur oxides of carbon
Hazardous Polymerization (Conditions To Avoid)	Will not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Toxicological information and interpretation LD50 – lethal dose 50% of test species, >5000 mg/kg, rat
Acute Dermal Toxicity	Toxicological information and interpretation LD50 – lethal dose 50% of test species, >2000 mg/kg rabbit
Acute Inhalation Toxicity	Acute Respiratory Irritation: No test data available for this product
Skin Irritation	Toxicological information and interpretation Rabbit – Non irritating Primary Irritation Index – 0
Eye Irritation	Toxicological information and interpretation Rabbit – Eye irritation. Mild irritant
Sensitization	guinea pig. Not sensitizing
Chronic Toxicity	The EPA has classified fipronil 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. Fipronil is not mutagenic or teratogenic.

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SECTION 11 – TOXICOLOGICAL INFORMATION

Assessment Carcinogenicity:

ACGIH	None
NTP	None
IARC	None
OSHA	None

SECTION 12 – ECOLOGICAL INFORMATION

Environmental
Precautions

This pesticide is toxic to birds, fish and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Cover, incorporate or clean up granules that are spilled. Do not contaminate water when disposing of equipment washwater or rinsate.

DO NOT APPLY WITHIN 15 FEET OF BODIES OF FRESH WATER: LAKES, RESERVOIRS, RIVER, PERMANENT STREAMS, MARSHES, NATURAL PONDS, AND COMMERCIAL FISH PONDS. A 15 FEET BUFFER OF UNIFORM GROUND-COVER MUST EXIST BETWEEN APPLICATION ZONE AND BODIES OF FRESHWATER (uniform ground cover is defined as land which supports vegetation of greater than 2 inches throughout).

Do not apply within 60 feet of estuarine bodies of water. Estuarine water bodies are brackish, tidal water such as bays, mouths of rivers, salt marshes and lagoons.

In order to reduce risk to birds, ensure that the application is spread evenly over the treatment area. In Florida, do not use this product within a one-mile radius of scrub oak habitat, which is home to the Florida scrub jay, the sand shink, and the blue tail mole shink.

Ecological
Information

The following data is based on the technical grade ingredients(s) (TGAI).

Ecotoxicological information and interpretation

Mallard duck (*Anas platyrhynchos*)

LC50 – lethal concentration 50% of test species, >5000 mg/kg/8 days

Dietary concentrations. Meal concentration.

Bobwhite quail (*Colinus virginianus*)

LC50 – lethal concentrations 50% of test species, > 48mg/kg/8 days

Dietary concentrations. Mean concentration.

Daphnia magna

EC50 – effective concentration 50% of test species, 190 ug/l/48 hr.

Mean concentration. Flow-through

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SECTION 12 – ECOLOGICAL INFORMATION

Ecological
Information

Bluegill sunfish (*Lepomis macrochirus*)
LC50 – lethal concentration 50% of test species, 85 ug/l/96 hr.
Mean concentration. Flow-through

Rainbow trout (*Oncorhynchus mykiss*)
LC50 – lethal concentration 50% of test species, 248 ug/l/96 hr
Mean concentration. Flow-through

Environmental
Fate

For chemical fate data call the product information phone number listed in Section 1.

SECTION 13 – DISPOSAL CONSIDERATIONS

General Disposal
Guidance

Pesticides wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal law.

Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

EPA Hazardous Waste – NO

Container Disposal

NEVER REUSE EMPTY CONTAINERS:

Containers may be disposed of by securely wrapping containers in several layers of newspaper and discarding in trash.

SECTION 14 – TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORTATION

SECTION 15 – REGULATORY INFORMATION

US Federal

EPA Registration No.	432-1225-71004
TSCA List	None
TSCA 12b export notification	None
SARA Title III – Section 302 – Notification & information	None
SARA Title III – Section 313 – Toxic chemical release reporting	None

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SECTION 15 – REGULATORY INFORMATION

US States Regulatory

CA Prop 65

This product contains a chemical known to the state of California to cause cancer. None

This product contains a chemical known to the state of California to cause birth defects or other reproductive harm. None

US State Right-To-Know Ingredients None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

SECTION 16 – OTHER INFORMATION

	Health	Flammability	Reactivity
HMIS	1	1	0
NFPA	1	1	0

NOTICE FROM TECHPAC, LLC.

The information contained herein is offered only as a guide to the handling of this specific material. Since such information does not relate to use of the material with any other material or in any process, any person using this information must determine for himself its suitability for any particular application. The buyer and user assumes all risk and liability of use, storage and/or handling of this product not in accordance with the terms of the product label.