



TERMIDOR 80 WG INSECTICIDE

MSDS Version 1.1

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	TERMIDOR 80 WG INSECTICIDE
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
MSDS Number	642
Chemical Family	
Chemical Formulation	C12H4Cl2F6N4OS
EPA Registration No.	432-900
Canadian Registrat. No.	

Bayer Environmental Science
 95 Chestnut Ridge Road
 Montvale, NJ 07645
 USA

For Product Use Information: (800)331-2867 Monday through Friday(CRLF) 8:00AM-4:30PM(CRLF) For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day(CRLF) For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component Name</u>	<u>CAS No.</u>	<u>Concentration % by Weight</u>	
		<u>Minimum</u>	<u>Maximum</u>
FIPRONIL	120068-37-3	80.0000	
Inert ingredients		20.0000	

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SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview

WARNING!!! MAY BE FATAL IF SWALLOWED, ABSORBED THROUGH THE SKIN, OR INHALED. HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS. CAUSES SUBSTANTIAL BUT TEMPORARY EYE INJURY. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE IN SPRAY MIST.

Physical State

solid

Odor

Slight odor

Appearance

A brown powder.

Immediate Effects

Eye

Causes substantial but temporary eye injury. May cause redness, irritation and tearing.

Skin

May be fatal if absorbed through skin. May produce symptoms similar to those from ingestion.

Ingestion

May be fatal if swallowed. May cause shortness of breath, involuntary shaking, convulsions, excitement.

Inhalation

May be fatal if inhaled. May produce symptoms similar to those from ingestion. May cause shortness of breath, excitement, involuntary shaking, convulsions, irritability.

Chronic or Delayed Long-Term

This product does not contain any ingredient designated by the IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens (see Section 11 - Toxicological Information).

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 and Symptoms

Contact a physician immediately in all cases of suspected poisoning. Transport patient to a physician or hospital immediately. If poisoning is suspected in animals, contact a veterinarian.

SECTION 4. FIRST AID MEASURES

Eye

Flush with plenty of water. Call a physician if irritation persists.

Skin

Wash with plenty of soap and water. Get medical attention. Remove contaminated clothing and shoes. Clean contaminated clothing and shoes before re-use.

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Ingestion Give 1 or 2 glasses of water, and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Call a physician or Poison Control Center. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Inhalation Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

Note to Physician All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

SYMPTOMS OF POISONING:

In severe cases of overexposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur.

Treat symptomatically. No specific antidote available.

TREATMENT FOR FIPRONIL OVERDOSE:

Recommendations for treatment are based on anticonvulsant therapy as routinely administered to humans. Phenobarbital or diazepam may be useful in controlling convulsions induced by Fipronil.

Even when symptoms of Fipronil intoxication are rapidly reversed by treatment, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the patients clinical response. This is necessary due to the slow elimination of the compound.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point Not applicable

Auto Ignition Temperature > 140 °C / > 284 °F

Fire and Explosion Hazards Under fire conditions the product will burn and toxic, corrosive fumes emitted.

Suitable Extinguishing Media Dry Chemical, Foam, Water, Carbon Dioxide

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. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for

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symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation.

SECTION 6. ACCIDENTAL RELEASE MEASURES

General and Disposal

Environmental Precautions:

Shovel up into an appropriate closed container (see Section 7: Handling and Storage). Decontaminate tools and equipment following cleanup. Avoid creation of dust conditions.

Land Spill or Leaks

EVACUATION PROCEDURES AND SAFETY:

Wear appropriate protective gear for the situation. See Personal Protection information in Section 8.

In case of spill, clean up dust spillage resulting from container or pak breakage by sweeping material into a pile and avoid dust generation. Ensure adequate decontamination of tools and equipment following cleanup.

If spilled on the ground, the affected area should be scraped clean and placed in a appropriate container for disposal.

SECTION 7. HANDLING AND STORAGE

Handling Procedures

Do not get on skin or in eyes, or on clothing.
Do not breathe dust.
Do not ingest.

Storing Procedures

Do not contaminate water, food, or feed by storage or disposal.
Store in an area that is away from foodstuffs or animal feed.
Store unused product in original container only, out of reach of children and animals.

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:

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

(2) Wash hands and face thoroughly with soap and water before eating, drinking, chewing gum, using tobacco, applying cosmetics, or using the toilet.

(3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

(4) (1) Remove contaminated clothing. Then wash body thoroughly with soap and water and put on clean clothing.

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(5) Wash clothing with detergent and hot water before reusing. Contaminated clothing should not be taken home or laundered with other clothing.

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 the point of generation.

Eye/Face Protection All pesticide handlers must wear protective eyewear (goggles, a face shield, or safety glasses with front, brow, and temple protection) when working in a non-ventilated space, including but not limited to crawl-spaces and basements or when applying termiticide by rodding or sub-slab injection.

Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Body Protection All pesticide handlers (mixers, loaders, and applicators) must wear a long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves.

Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection All pesticide handlers must wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with any N, R, P, or HE filter when working in a non-ventilated space, including but not limited to crawl-spaces and basements.

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

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	A brown powder.
Physical State	solid
Odor	Slight odor
pH	5.6 at 1 wt/wt%
Vapor Pressure	Not available
Vapor Density (air = 1)	Not available
Specific Gravity	Not available
Boiling Point	Not available
Melting/Freezing Point	200 °C
Solubility (in water)	dispersible
Molecular Weight	437.15 g/mol
Decomposition Temperature	240 °C
Octanol/Water Partition Coefficient	4
Other Information	Physical and Chemical properties here represent typical properties of this product.

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 Fluoride Oxides of Nitrogen

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Oxides of Sulfur
Oxides of Carbon
Hydrochloric Acid

**Hazardous
Polymerization
(Conditions to avoid)**

Will Not Occur

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity Rat: LD50: 296 mg/kg

Acute Dermal Toxicity Rabbit: LD50: 374 mg/kg

Acute Inhalation Toxicity Rat: LC50: 0.63 mg/l 4 h
Nose exposure only.

ACUTE RESPIRATORY IRRITATION:
No test data found for product.

Skin Irritation Rabbit: Minimally irritating.

Eye Irritation Rabbit: Moderately irritating

Sensitization Guinea pig: Non-sensitizing
0.4 NAP

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. Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment washwaters.

Ecological Information The following data is based on the technical grade active ingredient(s) (TGAI)

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Mallard duck (*Anas platyrhynchos*)
LC50 > 5,000 mg/kg/8 days. Dietary concentrations. Mean concentration.

Bobwhite quail (*Colinus virginianus*)
LC50 - 48 mg/kg/8 days. Dietary concentrations. Mean concentration.

Daphnia magna
EC50 - 248 ug/1/48 hr. Mean concentration. Flow through.

Rainbow trout (*Oncorhynchus mykiss*)
LC50 - 248 ug/1/96 hr. Mean concentration. Flow through.

Bluegill sunfish (*Lepomis macrochirus*)
LC50 - 85 ug/1/96 hr. Mean concentration. Flow through.

Environmental Fate For chemical fate data call the product use information phone number listed at the bottom of every page.

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal Guidance Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate, or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Container Disposal Water soluble packages should be placed directly into spray tanks containing some water. Then dispose of empty overpackaging bag in a sanitary landfill or, if allowed by government regulations, by burning or incineration. If bag is burned, stay out of smoke.

EPA Hazardous Waste - NO

RCRA Classification

SECTION 14. TRANSPORT INFORMATION

PROPER SHIPPING NAME: Pesticides, Solid, Toxic, N.O.S. (Fipronil), 6.1, UN2588, PG III

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SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No. 432-900

TSCA list

None

TSCA 12b export notification

None

SARA Title III - section 302 - notification and information

None

SARA Title III - section 313 - toxic chemical release reporting

None

US States Regulatory

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 Registrat. No.

Canadian Domestic Substance List

None

Environmental

CERCLA

None

Clean Water Section 307 Priority Pollutants

None

Safe Drinking Water Act Maximum Contaminant Levels

None

International Regulations

EU Classification

None

European Inventory of Existing Commercial Substances (EINECS)

None

SECTION 16. OTHER INFORMATION

REVISED SECTIONS:

MSDS REVISED INDICATOR: Company name change.

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PREPARED BY: Dept. of Regulatory Affairs
PHONE: 800-438-5837
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