

**CHIPCO® CHOICE™ INSECTICIDE**

MSDS Version 2.4

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

| | |
|--------------------------------|-----------------------------|
| Product Name | CHIPCO® CHOICE™ INSECTICIDE |
| Chemical Name | Fipronil |
| Synonym | |
| MSDS Number | 42 |
| Chemical Family | |
| Chemical Formulation | C12H4Cl2F6N4OS |
| EPA Registration No. | 432-896 |
| Canadian Registrat. No. | |

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

For Product Use Information: (800)331-2867 Monday through Friday
 8:00AM-4:30PM

For Medical Emergency contact DART: (800) 334-7577 24 Hours/Day

For Transportation Emergency CHEMTREC: (800) 424-9300 24 Hours/Day

Product Use Description Slit application of CHIPCO CHOICE Insecticide is intended for long-term control of mole crickets. Broadcast Application of CHIPCO CHOICE Insecticide is intended for long-term control of imported fire ants. In addition, mole crickets, fleas, ticks and nuisance ants are controlled for a limited time by the broadcast fire ant treatment.

FIFRA regulated use only.

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 | 0.1000 | |
| 1,2-Propylene glycol | 57-55-6 | | |
| Other ingredients (Trade secret) | | | |

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SECTION 3. HAZARDS IDENTIFICATION

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

Emergency Overview

Caution. Keep out of the reach of children. Hazard to humans and domestic animals. Harmful if absorbed through the skin. Causes eye irritation. Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.

Physical State

solid granules

Odor

odorless

Appearance

grey

Immediate Effects

Eye

May causes redness, irritation, tearing.

Skin

Harmful if absorbed through skin. May produce symptoms similar to those from ingestion. May cause irritation, redness, swelling.

Ingestion

Harmful if ingested. May cause drowsiness, involuntary shaking, shortness of breath, convulsions, excitement.

Inhalation

Harmful if inhaled. May produce symptoms similar to those from ingestion. May cause shortness of breath, upper respiratory tract irritation, excitement, involuntary shaking, convulsions, irritability.

Chronic or Delayed Long-Term

This product does not contain any ingredients 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 and 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

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to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Note to Physician

All treatment 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. There is no specific antidote.

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.

For phenobarbital: Start with 10 to 20 mg/kg of phenobarbital in rapid intravenous perfusion (about 60 mg/minute in adults) and continue according to the patient's response.

For diazepam: Start with 10 to 30 mg diazepam by intravenous injection according to body weight. This dose is to be repeated every 10 to 30 minutes according to the patient's response.

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 patient's clinical response. This is necessary due to the slow elimination of the compound.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point Not Applicable

Fire and Explosion Hazards Product will burn under fire conditions.

Suitable Extinguishing Media Small Fires:, dry chemical, carbon dioxide (CO2)

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 and Disposal Evacuation Procedures and Safety: Wear appropriate gear for the situation. See

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Personal Protection 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 procedure 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 waterway.

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 in original container. Keep out of reach of children and domestic animals. Never transfer this product to another container for storage.

Work/Hygienic Procedures

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove Personal Protective Equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. Then wash thoroughly and put on clean clothing.

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

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Min/Max Storage Temperatures

Not Available

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Where engineering controls are indicated by use conditions of a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation

When handlers used closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [(40 CFR 170.240(d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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

Applicators and other handlers must wear: Long-sleeved shirt and long pants waterproof gloves shoes plus socks

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 equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit.

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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| | | | | | |
|----------------------|---------|------------------|---------|--------------------------|----------|
| 1,2-Propylene glycol | 57-55-6 | WEEL | TWA | | 50 ppm |
| | | Form of Exposure | | Total vapor and aerosol. | |
| | | WEEL | TWA | | 10 mg/m3 |
| | | Form of Exposure | | Aerosol. | |
| | | ACGIH | TWA | | 3 mg/m3 |
| | | Form of Exposure | | Respirable. | |
| | | 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. | |
| | | US CA OEL | TWA PEL | | 5 mg/m3 |
| | | Form of Exposure | | Respirable fraction. | |
| | | 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. | |
| | | US CA OEL | TWA PEL | | 10 mg/m3 |
| | | Form of Exposure | | Total dust. | |
| | | ACGIH | TWA | | 10 mg/m3 |
| | | Form of Exposure | | Inhalable particulate. | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------------|-----------------------|
| Appearance | grey |
| Physical State | solid granules |
| 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 | Not available |
| Solubility (in water) | dispersible |
| Decomposition Temperature | 240 °C |

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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.

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 carbon oxides |
| Hazardous Polymerization (Conditions to avoid) | not applicable |

SECTION 11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute Oral Toxicity | Rat: LD50: > 5,000 mg/kg |
| Acute Dermal Toxicity | Rabbit: LD50: > 2,000 mg/kg |
| Acute Inhalation Toxicity | Rat: LC50: > 5.16 mg/l 4 h Whole body exposure. Acute Respiratory Irritation: No test data found for product. |
| Skin Irritation | Rabbit: Slightly irritating |
| Eye Irritation | Rabbit: Moderately irritating |
| Sensitization | Guinea pig: Non-sensitizing |
| Assessment Carcinogenicity ACGIH | None |

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NTP
None
IARC
None
OSHA
None

SECTION 12. ECOLOGICAL INFORMATION

Acute and Prolonged Toxicity to Fish

The following data is based on the technical grade active ingredient(s) (TGAI).
Rainbow trout
LC50: 248 ug/l
Exposure Time: 96 h
Mean concentration. Flow through.

The following data is based on the technical grade active ingredient(s) (TGAI).
Bluegill sunfish
LC50: 85 ug/l
Exposure Time: 96 h
Mean concentration. Flow through.

Acute Toxicity to Aquatic Invertebrates

The following data is based on the technical grade active ingredient(s) (TGAI).
Daphnia
EC50: 190 ug/l
Exposure Limit: 48 h
Mean concentration. Flow through.

Toxicity Other Non Mammal Terr. Species

The following data is based on the technical grade active ingredient(s) (TGAI).
Mallard duck
LD50: > 5,000 mg/kg
Exposure Time: 8 d
Dietary concentrations. Mean concentration.

The following data is based on the technical grade active ingredient(s) (TGAI).
Bobwhite quail
LC50: 48 mg/kg
Exposure Time: 8 d
Dietary concentrations. Mean concentration.

Environmental Precautions

This pesticide is toxic to birds, fish and aquatic invertebrates. Do not apply directly to water, 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.

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

SECTION 13. DISPOSAL CONSIDERATIONS

General Disposal 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.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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 use of this product may be disposed of on site or at an approved waste disposal facility.

EPA Hazardous Waste - No

Container Disposal Do not reuse containers. Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

RCRA Classification Not Regulated under this Statute

SECTION 14. TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORTATION.

SECTION 15. REGULATORY INFORMATION

US Federal

EPA Registration No. 432-896

TSCA list

1,2-Propylene glycol 57-55-6

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

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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-Propylene glycol | 57-55-6 | PA, RI |
|----------------------|---------|--------|

Canadian Regulations

Canadian Registrat. No. Canadian Domestic Substance List

| | |
|----------------------|---------|
| 1,2-Propylene glycol | 57-55-6 |
|----------------------|---------|

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)

| | |
|----------------------|---------|
| 1,2-Propylene glycol | 57-55-6 |
|----------------------|---------|

SECTION 16. OTHER INFORMATION

| | Health | Flammability | Reactivity | Others |
|------|--------|--------------|------------|--------|
| HMIS | 1 | 1 | 0 | |
| NFPA | 1 | 1 | 0 | |

Reason for Revisions: Company name change.

Print Date: 12/04/2002

Supersedes MSDS, which is older than: 12/03/2002

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