# Bayer Environmental Science



MSDS Number: 000000001611

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Version 1.3

#### **SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION**

Product Name CHIPCO TOPCHOICE <sup>™</sup> Insecticide, EXP 61748A

Chemical Name FIPRONIL: 5-amino-1-(2,6-dichloro-4-(trifluoromethyl) phenyl)-4-((1,R,S)-

(trifluroomethyl)sulfinyl)-1-H-pyrazole-3-carbonitrile

Synonym FIPRONIL

MSDS Number 1611

**Chemical Family** 

Chemical Formulation C12H4Cl2F6N4OS

**EPA Registration No.** 432-1217

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

**Product Use Description** 

CHIPCO TopChoice is to control imported fire ants in turfgrass and landscape beds. In addition, mole crickets, fleas, ticks, and nuisance ants are controlled for a limited time by the fire ant treatment.

FIFRA regulated use only.

#### **SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

Component Name	CAS No.	Concentration % by Weight	
		Minimum	Maximum
FIPRONIL	120068-37-3	0.0143	
Other ingredients (Trade secret)		99.9857	

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

#### **SECTION 3. HAZARDS IDENTIFICATION**

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

**Emergency Overview** CAUTION!

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Harmful if absorbed through skin. Causes eye irritation. Avoid contact with skin,

eyes or clothing. Wash thoroughly with soap and water after handling.

Physical State granular solid

Odor odorless.

**Appearance** grey

**Immediate Effects** 

**Eye** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash

thoroughly with soap and water after handling.

**Skin** Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing.

Wash thoroughly with soap and wate 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 and Symptoms In severe cases of overexposure by oral ingestion, lethargy, muscle tremors,

and, in extreme cases, posssibly 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

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

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.

#### **SECTION 5. FIRE FIGHTING MEASURES**

Flash Point Not Applicable

Fire and Explosion

Hazards

Product will burn under fire conditions.

**Suitable Extinguishing** 

Media

Recommended (small fires): dry chemical, carbon dioxide,

Recommended (large fire): 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 protective gear for the situation. See 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 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 a appropriate container for disposal. Prevent material from entering public sewer

### CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

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.

# 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 carefully 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) Remove clothing immediately if pesticide gets inside. Then wash body thoroughly and put on clean clothing.
- (5) 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.
- (6) Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- (7) 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. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### Min/Max Storage Temperatures

Not Available

#### CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

#### 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 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.

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.

Applicators, mixers, loaders and persons cleaning application equipment must wear:

Longsleeved shirt and long pants

Waterproof gloves Shoes plus socks

When handlers use closed system or enclosed cabs, in a manner that meets the requirements listed in the Worker Protection Standard (WPS) or agricultural practices (40 CFR 170.240 (d) (4-6), the handler PPE requirement may be reduced or modified as specified in the WPS.

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for applicators and other handlers, and such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

#### AGRICULTURAL USE REQUIREMENTS

Use this product in accordance with its labeling and with the Worker Protection, 40 CFR 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. The requirements only apply to sodfarm uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE requirement for entry to treated areas that is permitted under the Worker Protection Standard and that involes contact with anything that has been treated, such as plants, soil, or water is:

coveralls

waterproof gloves

shoes plus socks

#### NON AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are not within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Always wear protective clothing and use appropriate equipment during application and handling. Avoid contact with granules. Avoid breathing dust.

#### **Exposure Limits**

None Established

#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** grey

Physical State granular solid

Odor odorless.

**pH** 4.7 at 1 wt/wt%.

Vapor Pressure Not available

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611

MSDS Version 1.3

Vapor Density (air = 1) Not available

**Specific Gravity** Not Available

1.79 g/ml **Density** 

at 20 °C

**Boiling Point** Not available

**Melting/Freezing Point** 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.

#### **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

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

Will Not Occur.

Polymerization (Conditions to avoid)

**Hazardous** 

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute Oral Toxicity Rat: 5,000 mg/kg

Acute Dermal Toxicity Rabbit: 2,000 mg/kg

**Acute Inhalation Toxicity** Acute Respiratory Irritation:

No test data available for this product.

**Skin Irritation** Rabbit - Non irritating

Primary Irritation Index: 0

**Eye Irritation** Rabbit - 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

MSDS Number: 00000001611

MSDS Version 1.3

incidence in mice. Fipronil is not mutagenic or teratogenic.

#### **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 groundcover 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).

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

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 skink, and the blue tail mole skink.

#### **Ecological Information**

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

Mallard duck (Anas platyrhynchos).

LC50 - lethal concentration 50% of test species, > 5000 mg/kg/8 days Dietary concentrations. Mean concentration.

Bobwhite quail (Colinus virginianus).

LC50 - lethal concentration 50% of test species, 48 mg/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.

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.

### CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

**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:

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 open burning. If container is burned, stay out of smoke.

#### **RCRA Classification**

#### **SECTION 14. TRANSPORT INFORMATION**

NOT REGULATED FOR TRANSPORTATION

#### **SECTION 15. REGULATORY INFORMATION**

**US Federal** 

EPA Registration No. 432-1217

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**

## CHIPCO TOPCHOICE <sup>™</sup> Insecticide

MSDS Number: 000000001611 MSDS Version 1.3

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**

Reason for Revisions:

MSDS REVISION INDICATOR: Company name change.

Print Date: 12/10/2002

Supersedes MSDS, which is older than: 12/10/2002

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