

MATERIAL SAFETY DATA SHEET

Agricultural Products Group
P.O.Box 13528,
Research Triangle Park, NC 27709
(919) 547-2000

EMERGENCY TELEPHONE NUMBERS:

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 58A054 Termidor SC Termiticide/Insecticide

Date Prepared: 1/8/2003 Date Revised: 7/3/2003

SECTION I

Trade Name: Termidor SC Termiticide/Insecticide

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

Synonyms: Fipronil

Formula: C(12) H (4) Cl(2) F (6) N (4) O S

Chemical Family: Phenyl pyrazole

Mol Wt: 437.15

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Fipronil	120068-37-3	9.1	Not Established
Other ingredients		90.0	

SARA Title III Section 313: none

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760mm Hg: N/A pH: @1 wt/wt%

VAPOR PRESSURE mmHg @ 20°C: N/A

SPECIFIC GRAVITY OR BULK DENSITY: 1.06 g/mL

SOLUBILITY IN WATER: dispersible

APPEARANCE: Light brown

ODOR: Odorless

INTENSITY: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): >199 °F TCC AUTOIGNITION TEMP: N/A

FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: N/A UPPER: N/A

NFPA 704 HAZARD CODES

HEALTH: 2

FLAMMABLE: 1

INSTABILITY: 0

OTHER: N/A

NFPA 30 STORAGE CLASSIFICATION:

EXTINGUISHING MEDIUM: Use water fog, foam, CO(2), or dry chemical extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES: Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

UNUSUAL FIRE EXPLOSION HAZARDS: Containers may explode (due to the build up of pressure) when exposed to extreme heat.

SELECT ACRONYM KEY

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

Rat, Oral LD50 > 1999 mg/kg
 Rabbit, Dermal LD50 > 2000 mg/kg
 Rat, Inhalation LC50 (4 hr) > 1.7 mg/L
 Rat, inhalation LC50 (1 hr) calculated > 6.8 mg/L
 Rabbit, Skin Irritation - slightly irritating
 Rabbit, eye Irritation - mildly irritating
 Guinea pig, Dermal Sensitizer - Non sensitizing

No evidence of carcinogenicity was observed in the mouse.

An increase in tumors was observed in the rat thyroid, but only at a very high dose.

It has been determined that the mechanism of tumor induction only occurs at high doses in rats.

Therefore, fipronil is not considered to pose a carcinogenic risk at low human exposure levels.

OSHA, NTP, or IARC Carcinogen: No.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

Keep out of the reach of children. Hazard to humans and domestic animals. Harmful if swallowed, inhaled or absorbed through the skin.

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist.

This pesticide is toxic to birds, fish and aquatic invertebrates.

Causes eye irritation. May cause redness, tearing. Do not get in eyes.

Harmful if absorbed through the skin. Do not get on skin or clothing. May produce symptoms similar to those from ingestion.

May cause irritation, redness, swelling.

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

Harmful if inhaled. Avoid breathing spray mist. May produce symptoms similar to those from ingestion.

May cause shortness of breath, excitement, involuntary shaking, irritability.

Medical conditions aggravated by exposure:

Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

FIRST AID PROCEDURES

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

If on skin or clothing: 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.

If inhaled: Move person 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 poison control center or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Note to physician: Treat symptomatically. No specific antidote.

Note: 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 VI - REACTIVITY DATA**STABILITY:** Stable**CONDITIONS TO AVOID:** Direct sunlight, extreme heat, spark and open flame.**CHEMICAL INCOMPATIBILITY:** Strong bases, strong acids and strong oxidizing agents.**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen fluoride, NO_x, SO_x, carbon oxide, HCl.**HAZARDOUS POLYMERIZATION:** Does not occur**CONDITIONS TO AVOID:** None**CORROSIVE TO METAL:** N/A**OXIDIZER:** N/A**SECTION VII - PERSONAL PROTECTION**

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**Respiratory Protection:**

If mists are generated, wear a NIOSH approved respirator.

Eye Protection:

Chemical goggles when respirator does not provide eye protection.

Protective Clothing:

Chemically resistant suit, chemically resistant boots, and neoprene gloves as necessary to minimize skin contact.

Ventilation:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

SECTION VIII - ENVIRONMENTAL DATA**ENVIRONMENTAL TOXICITY DATA**

Data available for a similar product:

Bluegill Sunfish, 96h-flow through LC₅₀ = 85 ug/L

Rainbow Trout, 96h-flow through LC₅₀ = 248 ug/L

Daphnia magna, 48h-flow though EC₅₀ = 190 ug/L

Mallard Duck, 8 days LC₅₀ = 5000 mg/kg

Bobwhite Quail, 8 days LC₅₀ = 48 mg/kg

This pesticide is toxic to birds, fish and aquatic invertebrates.

SECTION X - ADDITIONAL INFORMATION**Termidor SC Termiticide/Insecticide**

Hazard to humans and domestic animals.

KEEP OUT OF REACH OF CHILDREN

CAUTION

Complete Label and Directions For Use are attached to the product.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

BASF Corporation

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DISCLAIMER

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EMERGENCY TELEPHONE NUMBERS:

BASF Corporation: 1 (800) 832-HELP

CHEMTREC: 1 (800) 424-9300

Product No.: 58A110 Termidor SC Finished Spray Solution

Date Prepared: 8/11/2003 Date Revised:

SECTION I

Trade Name: Termidor SC Finished Spray Solution

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

Synonyms: Termidor, Fipronil

Formula: C(12) H(4) Cl (2) F (6) N (4) O S

Chemical Family: Phenyl pyrazole

Mol Wt: 437.15

SECTION II - INGREDIENTS

COMPONENT	CAS NO.	%	PEL/TLV - SOURCE
Fipronil	120068-37-3	0.06	Not established
Inerts		99.94	

SARA Title III Section 313:

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760mm Hg: N/A pH: 7.1 wt/wt%

VAPOR PRESSURE mmHg @ 20°C: N/A

SPECIFIC GRAVITY OR BULK DENSITY: N/A N/A

SOLUBILITY IN WATER: Dispersible

APPEARANCE: Pale brown liquid ODOR: Odorless INTENSITY: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): N/A AUTOIGNITION TEMP: N/A

FLAMMABILITY LIMITS IN AIR (% BY VOL): LOWER: N/A UPPER: N/A

NFPA 704 HAZARD CODES

HEALTH: 2 FLAMMABLE: 0 INSTABILITY: 1 OTHER: N/A

NFPA 30 STORAGE CLASSIFICATION:

EXTINGUISHING MEDIUM Use water fog, foam, CO(2), or dry chemical extinguishing media.

SPECIAL FIREFIGHTING PROCEDURES Firefighters should be equipped with self-contained breathing apparatus and turnout gear.

UNUSUAL FIRE EXPLOSION HAZARDS None

SELECT ACRONYM KEY

N/A - Not available; N/D - Not determined; N/R - Not rated; N/E - Not established

SECTION V - HEALTH DATA**TOXICOLOGICAL TEST DATA:**

Rat, Oral LD50 > 5000 mg/kg
 Rat, Dermal LD50 > 2000 mg/kg
 Rat, Inhalation LC50 (4 hr) > 2.9 mg/L
 Rabbit, Skin Irritation - Slightly irritating
 Rabbit, Eye Irritation - Not irritating
 Guinea pig, Dermal Sensitizer - Non sensitizing

OSHA, NTP, or IARC Carcinogen: No.

EFFECTS OF OVEREXPOSURE:

See Product Label and Directions For Use for additional precautionary statements.

Causes moderate eye irritation. Harmful if absorbed through the skin. Harmful if swallowed or inhaled.

Avoid contact with skin, eyes or clothing. May cause shortness of breath, excitement, involuntary shaking, convulsions, irritability.

FIRST AID PROCEDURES

If in eyes: Immediately wash eyes with running water for 15 minutes. If irritation develops, consult a physician.

If inhaled: Move person 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 poison control center or doctor for further treatment advice.

If on skin or clothing: 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.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

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

SECTION VI - REACTIVITY DATA

STABILITY: This material is stable under normal handling and storage conditions.

CONDITIONS TO AVOID: Direct sunlight and extreme heat.

CHEMICAL INCOMPATIBILITY: Strong acids and strong bases, strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: HF, NO_x, SO_x, Oxides of Carbon, HCl

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

CORROSIVE TO METAL: N/A

OXIDIZER: N/A

SECTION VII - PERSONAL PROTECTION

PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170.

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:**Respiratory Protection:**

If mists are generated, wear a NIOSH approved respirator.

Eye Protection:

Chemical goggles.

Protective Clothing:

Gloves, long-sleeved shirt, and slacks.

Chemically resistant suit, chemically resistant boots, and neoprene gloves as necessary to minimize skin contact.

Ventilation:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

SECTION VIII - ENVIRONMENTAL DATA**ENVIRONMENTAL TOXICITY DATA**

Mallard Duck, LC50 > 5000 mg/kg

Bobwhite Quail, LC50 = 48 mg/kg

Daphnia magna, EC50 = 248 ug/1/48hr

Rainbow Trout, LC50 = 248 ug/1/96hr

Bluegill Sunfish, LC50 = 85 ug/1/96hr

This pesticide is toxic to birds, fish, and aquatic invertebrates.

SARA 311/312 REPORTING

FIRE:N PRESSURE:N REACTIVITY:N ACUTE:Y CHRONIC:N TPQ(lbs):

SPILL AND LEAK PROCEDURES:

In case of large scale spillage of this product, avoid contact, isolate area and keep out animals and unprotected persons. Call CHEMTREC (800 424-9300) or BASF Corporation (800 832-HELP). For a small spill, wear personal protective equipment as specified on the label.

FOR A LIQUID SPILL: Dike and contain the spill with inert material (sand, earth, etc.) and transfer the liquid and solid diking materials to separate containers for disposal.

FOR A SOLID SPILL: Sweep solid into a drum for re-use or disposal. Remove personal protective equipment and decontaminate it prior to re-use.

HAZARDOUS SUBSTANCE SUPERFUND:

RQ(lbs): n/a

WASTE DISPOSAL METHOD:

Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

HAZARDOUS WASTE 40CFR261:

HAZARDOUS WASTE NUMBER:

CONTAINER DISPOSAL:

Plastic or metal containers: Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state or local authorities, by burning. If burned, stay out of smoke.

SECTION IX - SHIPPING DATA - PACKAGE AND BULK**D.O.T. PROPER SHIPPING NAME (49CFR172.101-102):**

See below

HAZARDOUS SUBSTANCE**(49CFR CERCLA LIST):**

See below

RQ(lbs): n/a**D.O.T. HAZARD CLASSIFICATION (CFR 172.101-102):****PRIMARY**

See below

SECONDARY

See below

D.O.T. LABELS REQUIRED (49CFR172.101-102):

See below

**D.O.T. PLACARDS
REQUIRED (CFR172.504):**

See below

**POISON CONSTITUENT
(49CFR172.203(K)):**

See below

BILL OF LADING DESCRIPTION

The proper classification must be made by the shipper.

CC NO.:**UN/NA CODE:****SECTION X - ADDITIONAL INFORMATION**

Termidor SC Finished Spray Solution

KEEP OUT OF REACH OF CHILDREN**KEEP OUT OF REACH OF CHILDREN****CAUTION****Complete Label and Directions For Use are attached to the product.****Agricultural Use Requirements**

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