

MATERIAL SAFETY DATA SHEET

Agricultural Products Group
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EMERGENCY TELEPHONE NUMBERS:

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Product No.: 58A055 Regent 80 WG Insecticide

Date Prepared: 3/13/2003 Date Revised: 8/29/2003

SECTION I

Trade Name: Regent 80 WG Insecticide

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

Synonyms: fipronil, Regent 800 WG 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	80	Not Established
Other components		20	

SARA Title III Section 313:

SECTION III - PHYSICAL DATA

BOILING/MELTING POINT@760mm Hg: 200 °C pH: 5.63 @1 w/w%

VAPOR PRESSURE mmHg @ 20°C: N/A

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

SOLUBILITY IN WATER: dispersible

APPEARANCE: Brown powder solid ODOR: slight INTENSITY: N/A

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (TEST METHOD): N/A AUTOIGNITION TEMP: >140°C

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

NFPA 704 HAZARD CODES N/A

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

NFPA 30 STORAGE CLASSIFICATION: N/D

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 = 296 mg/kg
 Rabbit, Dermal LD50 = 374 mg/kg
 Rat, Inhalation LC50 (4 hr) = 0.63 mg/L
 Rat, Inhalation LC50 (1 hr) calculated = 2.52 mg/L
 Rabbit, Eye Irritation - Moderately irritating
 Rabbit, Skin Irritation - Minimally irritating
 Guinea pig, Dermal Sensitizer - Not 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.

Warning! May be fatal if inhaled, swallowed or absorbed through skin. Eye irritant.

Acute eye: Causes redness, irritation, tearing. Substantial but temporary eye injury.

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

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

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

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.

FIRST AID PROCEDURES

If in eyes: Immediately hold eyelids open and flush with a steady, gentle stream of water for 15-20 minutes. Get medical attention.

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: Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

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. 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.

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 VI - REACTIVITY DATA

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Avoid direct sunlight and extreme heat.

CHEMICAL INCOMPATIBILITY: Strong bases, strong acids and strong oxidizing

HAZARDOUS DECOMPOSITION PRODUCTS: HF, NO_x, SO_x, HCl and oxides of carbon

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:**

Supplied air respirators should be worn if large quantities of mist/dust are generated or prolonged exposure possible.

Eye Protection:

Chemical goggles when respirator does not provide eye protection.

Protective Clothing:

Gloves, long-sleeved shirt, and slacks.

Ventilation:

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

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

Data for Fipronil technical:

Mallard Duck, 8 days LC₅₀ > 5000 mg/kg

Bobwhite Quail, 8 days LC₅₀ = 48 mg/kg

Daphnia magna, 48 hours EC₅₀ = 248 ug/L

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

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

SECTION X - ADDITIONAL INFORMATION

Regent 80 WG Insecticide

EPA Reg. No. see Fifra label

KEEP OUT OF REACH OF CHILDREN

WARNING

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.

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