



**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

Based on our hazard evaluation, the following chemical substance(s) in this product have been identified as hazardous.

<u>INGREDIENT</u>	<u>CAS NUMBER</u>	<u>PERCENT (w/w)</u>
FIPRONIL	120068-37-3	0.03 %

**SECTION 4: FIRST AID MEASURES**

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

**EYES:** Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persists.

**SKIN:** Rinse affected area with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

**INGESTION:** Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

**INHALATION:** Remove from exposure area to fresh air immediately. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

**NOTE TO PHYSICIAN:** The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

**SECTION 5: FIRE FIGHTING MEASURES****FLAMMABLE PROPERTIES**

OSHA FLAMMABILITY CLASSIFICATION: Not applicable

FLASH POINT: > 200°F (TCC)

UPPER FLAMMABILITY LIMIT: Not applicable

LOWER FLAMMABILITY LIMIT: Not applicable

AUTO-IGNITION TEMPERATURE: Not applicable

FIRE AND EXPLOSION HAZARD: Negligible fire hazard when exposed to heat or flame.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and oxides of nitrogen.

**EXTINGUISHING MEDIA**

Dry chemical, carbon dioxide (CO<sub>2</sub>) foam or water spray.

**PROTECTION OF FIREFIGHTERS**

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing vapors; keep upwind.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****PERSONAL PRECAUTIONS**

Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8. Notify appropriate government, occupational health and safety and environmental authorities. Keep unnecessary people away; isolate hazard area and restrict entry. Ensure clean-up is conducted by trained personnel only.

**ENVIRONMENTAL PRECAUTIONS**

This product is toxic to fish and aquatic invertebrates. This product should not be directly discharged into lakes, streams, ponds, estuaries, oceans, public water supplies, or other waters. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment washwater.

#### METHODS FOR CONTAINMENT AND CLEAN UP

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. No smoking, flames or flares in hazard area.

## SECTION 7: HANDLING AND STORAGE

#### HANDLING:

Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

#### STORAGE:

Store in a cool, dry, ventilated area out of reach of children and away from sources of heat, moisture, and incompatible substances. Store in suitable labeled containers. Store the containers tightly closed.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

The use of this product by consumers is safe under normal and reasonable foreseen use. The information provided below refers to the occupational settings.

#### WORKER EXPOSURE LIMITS:

The following exposure limits exist for the ingredients listed below. The TLV-TWA is the Threshold Limit Value – Time Weighted Average from Rhone – Poulenc for 12-month daily exposure.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Fipronil	120068-37-3	TLV-TWA 0.1 mg/m <sup>3</sup> ; 0.032 mg/m <sup>3</sup>

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants as low as possible.

RESPIRATOR: None required under normal use conditions. Use general ventilation to minimize exposure. Air contamination monitoring should be carried out where generation of vapors is likely to occur, to assure that the employees are not exposed to harmful concentrations of any of the above mentioned components. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing (impervious to liquids) is required where splashing of product may occur.

GLOVES: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE/FACE PROTECTION: Splash-proof safety glasses are required to prevent eye contact where splashing of product may occur.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fipronil based food bait in a child resistant plastic station.

ODOR/ODOR THRESHOLD: Not available PHYSICAL STATE: Solid

pH (@ 25°C): Not available VAPOR DENSITY: Not available

**COMBAT QUICK KILL FORMULA 1**

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BOILING POINT: Not available

VAPOR PRESSURE: Not available

MELTING/FREEZING POINT: 60°C

FLASH POINT: See Section 5.

FLAMMABLE PROPERTIES: See Section 5.

SOLUBILITY IN WATER: Partial

DENSITY/SPECIFIC GRAVITY: 1.27 g/ml

EVAPORATION RATE: Not available

OCTANOL/WATER PARTITION COEFFICIENT (K<sub>ow</sub>): Not available

VISCOSITY (Dynamic): Not applicable

**SECTION 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

CONDITIONS TO AVOID: Avoid storing in direct sunlight and avoid extremes of temperature.

INCOMPATIBLE MATERIALS: Strong oxidizers and reducing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition products may include oxides of carbon.

POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

PRODUCT INFORMATION SUMMARY: The use of this product by consumers is safe under normal and reasonable foreseen use. Direct contact with eyes can cause mild-to-moderate irritation. Can cause mild skin irritation with prolonged contact.

COMPONENT ANALYSIS: The following toxicity information is available for the product and/or for the hazardous ingredients when used as technical grade.

PRODUCT / INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
<b>ACUTE ORAL TOXICITY</b>		
Combat Quick Kill Formula 1	> 5,000 mg/kg (rat)	Non-hazardous
Fipronil (active ingredient)	97 mg/kg (rat)	Very Toxic
<b>ACUTE DERMAL TOXICITY</b>		
Combat Quick Kill Formula 1	> 2,000 mg/kg (rabbit)	Practically Non-Toxic
Fipronil (active ingredient)	354 mg/kg (rabbit)	Extremely Toxic
<b>ACUTE INHALATION TOXICITY</b>		
Combat Quick Kill Formula 1	> 5.0 mg/l	Slightly Toxic
Fipronil (active ingredient)	0.39 mg/l (rat)	Moderately Toxic
<b>EYE IRRITATION</b>		
Combat Quick Kill Formula 1		Slightly Irritating
Fipronil (active ingredient)		Moderately Irritating
<b>SKIN IRRITATION</b>		
Combat Quick Kill Formula 1		Practically Non-Irritating
Fipronil (active ingredient)		Slightly Irritating

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: None of the ingredients in this product are known as reproductive, fetal, or developmental hazards.

TARGET ORGAN TOXICITY: None of the ingredients in this product are known to have target organ toxicity.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

## SECTION 12: ECOLOGICAL INFORMATION

The environmental toxicity of this product has not been evaluated. The active ingredient Fipronil is toxic birds, fish, and aquatic invertebrates. The following toxicity information is available for the hazardous ingredient when used as technical grade.

INGREDIENT	LC50 / ED50 / SPECIES	TOXICITY RATING
AQUATIC VERTEBRATES (FISH) Fipronil (active ingredient)	96h LC50: 0.248 mg/l (Rainbow trout) (flow-through test)	Very Toxic
AQUATIC INVERTEBRATES Fipronil (active ingredient)	48h EC50: 0.248 mg/l (Daphnia magna) flow-through test)	Very Toxic

ENVIRONMENTAL FATE: No environmental fate data exists for the product.

PERSISTENCE AND DEGRADABILITY: The persistence and degradability of this product has not been determined. Fipronil is degraded to Fipronil amide by hydrolysis with a half-life of 28 days (pH 9 and 25°C).

Water: In water, Fipronil undergoes photolysis with a half-life of 0.151 days (0.9 mg/l at pH 5 and 25°C). Fipronil is also metabolized in water under anaerobic conditions with half-lives of 116-130 days.

Soil: In loam soil (46% sand, 23% clay, 31% silt) containing 1.73% organic matter, Fipronil undergoes photolysis with a half-life of 34 days (224 mg/kg at pH 6.7 and 25°C). Fipronil is also metabolized in soil under aerobic conditions with half-lives of 122-128 and 308-342 days in sandy loam (1.7% organic matter and pH 7.8 at 25°C) and sand (3.3% organic matter and pH 6.1 at 25°C), respectively. The metabolite under these conditions is 5-amino-3-cyano-1-(2,6-dichloro-4-trifluoromethylphenyl)-4-trifluoromethanesulfonylpyrazole.

BIOACCUMULATION POTENTIAL: The bioaccumulation potential of this product has not been determined.

MOBILITY: The mobility of this product (in soil and water) has not been determined.

## SECTION 13: DISPOSAL CONSIDERATIONS

Pesticide wastes may be acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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.

WASTE NUMBER AND DESCRIPTION: Not applicable, not regulated.

DISPOSAL CONSIDERATIONS: This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

## SECTION 14: TRANSPORT INFORMATION

### GROUND TRANSPORT

DOT Hazard Class:	Not regulated	Packing Group:	Not applicable
DOT Proper Shipping Name:	Insecticide, Non-toxic, Solid	Shipping Label Information:	Not applicable
UN/NA Number:	Not applicable		

### AIR TRANSPORT (ICAO/IATA)

ICAO/IATA Hazard Class:	Not regulated
ICAO/IATA Proper Shipping Name:	Not applicable

### MARINE TRANSPORT (IMDG/IMO)

IMDG/IMO Hazard Class:	Not regulated
IMDG/IMO Proper Shipping Name:	Not applicable

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**SECTION 15: REGULATORY INFORMATION**

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**UNITED STATES:**

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :

The Occupational Safety and Health Administration requires Material Safety Data Sheets to provide any hazards that may be associated with the product, and make this information available in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this MSDS may contain additional health hazard information not pertinent to consumer use.

EPA - SARA TITLE III SECTION 313: This product contains no materials reportable under this section.

EPA CERCLA/SARA TITLE III SUPERFUND AMENDMENT AND REAUTHORIZATION ACT:

This product contains no CERCLA/SARA Title III materials.

TSCA: This product is a registered pesticide and is exempted from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

FIFRA: EPA Registration Number 64240-33  
EPA Establishment Number 071106-GA-001

**STATE REGULATIONS**

CALIFORNIA PROPOSITION 65: This product does not contain substances listed under California Proposition 65.

**CANADA:**

This product is not registered for sale or distribution in Canada.

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**SECTION 16: OTHER INFORMATION**

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DISCLAIMER: The information contained herein is provided in good faith and is believed to be correct as of the date hereof. However, The Dial Corporation makes no representation as to the comprehensiveness or accuracy of the information. It is expected that individuals receiving the information will exercise their independent judgment in determining its appropriateness for a particular purpose. Accordingly, The Dial Corporation will not be responsible for damages of any kind resulting from the use of or reliance upon such information. No representations, or warranties, either expressed or implied of merchantability, fitness for a particular purpose or of any other nature is made hereunder with respect to the information set forth herein or to the product to which the information refers.

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0  
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0

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SUPERSEDES: Ver. 1, 05/11/07

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REVISION: Updated Company Information.