



# TERNATE™ SC

## SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

### 1. IDENTIFICATION

**PRODUCT NAME:** Ternate SC  
**DESCRIPTION:** A liquid termiticide/insecticide  
**EPA REG NO.:** 91234-337  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

May cause damage to organs through prolonged or repeated exposure (H373)

Suspected of causing cancer (H351)

Harmful if swallowed or if inhaled (H302+H332)

Very toxic aquatic life with long lasting effects (H400+H410)



#### HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Specific target organ toxicity, repeated exposure	2	None	-
Carcinogenicity	2		
Acute toxicity, oral	4	<b>Environmental Hazards</b>	<b>Category</b>
Acute toxicity, inhalation	4	Hazardous to the aquatic environment, acute	1
		Hazardous to the aquatic environment, chronic	1

#### HAZARDS NOT REQUIRING CLASSIFICATION

None

#### PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. (P203)

Do not breathe mist/vapors/spray. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and protective clothing. Use only outdoors or in a well-ventilated area. (P260+P264+P270+P280+P271)

**IF SWALLOWED:** Get medical help. Rinse mouth. (P301+P317+P330)

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get medical help. (P304+P340+P317)

IF exposed or concerned, get medical advice. Get medical help if you feel unwell. (P318+ P319)

Avoid release to the environment not in accordance with the product label. Collect spillage. (P273+P391)

Store locked up. (P405)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Fipronil	1H-Pyrazole-3-carbonitrile, 5-amino-1-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-[(trifluoromethyl)sulfinyl]-	120068-37-3	9.1%

**NOTE:** Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at 1-844-685-9173 for emergency medical treatment information. For Chemical Emergency: Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300.

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

**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.

**NOTE TO PHYSICIAN:** There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred. In severe cases of over-exposure by oral ingestion, lethargy, muscle tremors, and in extreme cases, possibly convulsions may occur.

### 5. FIREFIGHTING MEASURES

**Flash Point:** >110°C (>230°F)

**Flammability Limits:** Not determined

**Fire and Explosion Hazards:** In the event of fire the following may be released, carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides.

**Extinguishing Medium:** Foam, dry powder, carbon dioxide, water spray

**Fire Fighting Equipment:** Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.



Manufactured for:  
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## 5. FIREFIGHTING MEASURES (continued)

**Hazardous Combustion Products:** If product is heated above decomposition temperature, toxic vapors will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

**NFPA Ratings:** Health – 2 / Flammability – 1 / Reactivity - 1

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined area. Use personal protective equipment as required. Keep people away from and upwind of spill/leak.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

**Spill Cleanup:** Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

## 7. HANDLING AND STORAGE

**Handling:** DO NOT get in eyes, on skin, or on clothing. DO NOT breathe spray mist.

**Storage:** Store in tightly closed container in a cool, dry place. Store in original container only, out of reach of children and animals in a locked storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

**Protective Clothing:** Applicators and other handlers must wear long-sleeved shirt and long pants, shoes plus socks, chemical-resistant gloves made of barrier laminate, butyl rubber  $\geq 14$  mils, nitrile rubber  $\geq 14$  mils, neoprene rubber  $\geq 14$  mils, polyvinyl chloride  $\geq 14$  mils, or Viton  $\geq 14$  mils.

**General:** Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	opaque off-white liquid
<b>Odor:</b>	mildly sweet
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	not available
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point (cc):</b>	$> 110^{\circ}\text{C}$ ( $> 230^{\circ}\text{F}$ )
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	4.85-5.85
<b>Brookfield Viscosity:</b>	186-15,040 cps
<b>Solubility:</b>	not available
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Density:</b>	8.79 lbs/gal (1.053 g/cm <sup>3</sup> )
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** All sources of ignition (heat, sparks, open flame); prolonged storage; electro-static discharge; contamination; prolonged exposure to extreme heat; and extreme temperatures.

**CHEMICAL STABILITY:** Stable at normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Avoid contact with strong acids, strong oxidizing agents, strong bases, and strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** No decomposition products expected under normal conditions of use. Prolonged thermal loading can result in products of degradation being given off.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

**ORAL TOXICITY (rat LD<sub>50</sub>):** 1,999 mg/kg

**DERMAL TOXICITY (rat LD<sub>50</sub>):**  $> 2,000$  mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):**  $> 1.7$  mg/L (4-hour)

**EYE IRRITATION:** Slightly irritating (Rabbit)

**SKIN IRRITATION:** Slightly irritating (Rabbit)

**SKIN SENSITIZATION:** Non-sensitizing (Guinea Pig)

**CARCINOGENICITY:**

**EPA:** Group C – Possible human carcinogen

**ACGIH:** Not Listed      **NTP:** Not Listed

**IARC:** Not Listed      **OSHA:** Not Listed

**SPECIFIC TARGET ORGAN TOXICITY-REPEATED EXPOSURE:**

Fipronil caused specific target organ toxicity in experimental animal studies in the following organ(s): Liver. Fipronil caused neurobehavioral effects and/or neuropathological changes in animal studies.

**MUTAGENIC TOXICITY:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**REPRODUCTIVE TOXICITY:** Fipronil caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Fipronil is related to parental toxicity.

## 12. ECOLOGICAL INFORMATION

This product is very toxic to fish, aquatic invertebrates, birds, and bees.

The following information is for the active ingredient, fipronil:

**AQUATIC TOXICITY**

Bluegill sunfish (96-hour LC<sub>50</sub>): 0.083 mg/L (estimated)

Sheepshead minnow (96-hour LC<sub>50</sub>): 0.13 mg/L; (NOAEC): 0.00024 mg/L (estimated)

Rainbow trout (22-weeks NOAEC): 0.0066 mg/L (estimated)

Black fly (LC<sub>50</sub>): 0.00022 mg/L

Mysid (LC<sub>50</sub>): 0.00014 mg/L; (NOAEC): 0.0000075 mg/L

**AVIAN TOXICITY**

Mallard/Bobwhite (Oral LD<sub>50</sub>): 11.3 mg/kg-bw

**OTHER TOXICITY**

Honeybee (contact/oral LD<sub>50</sub>): 0.006  $\mu\text{g}/\text{bee}$

**MOBILITY IN SOIL**

Fipronil: Slightly mobile in soils.



## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the 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.

**CONTAINER DISPOSAL:** Non-refillable containers. See container labeling for complete disposal instructions.

## 14. TRANSPORT INFORMATION

**US-DOT:** Not regulated

**IMDG:**

**Containers ≤ 1.3 gal. (5 L) in strong out packaging:**

Not regulated

**Containers > 1.3 gal. (5 L) or containers not in strong outer packaging:**

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains fipronil), 9, PG III, Marine Pollutant

**IATA:**

Shipments by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (contains fipronil), 9, PG III, Marine Pollutant

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

## 15. REGULATORY INFORMATION

**FIFRA –**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin, or inhaled. DO NOT get in eyes, on skin, or on clothing. DO NOT breathe spray mist.

#### ENVIRONMENTAL HAZARDS

For terrestrial uses, 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. Care must be taken to avoid runoff. DO NOT contaminate water by cleaning equipment or disposal of wastes. DO NOT contaminate water when disposing of equipment washwater or rinsate.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

**SARA Title III – Section 302 Extremely Hazardous Substances**  
Not listed

**SARA Title III – Section 311/312 Hazard Categories**  
Immediate (Acute), Delayed (Chronic)

**SARA Title III – Section 312 Threshold Planning Quantity**

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

**SARA Title III – Section 313 Reportable Ingredients**  
Not listed

**CERCLA Reportable Quantity (RQ) –**  
Not listed

**CALIFORNIA PROP 65 STATUS –**

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

**CANADA –**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

## 16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

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