

Tirade™

ULTRA SC

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Tirade Ultra SC
DESCRIPTION: Liquid Insecticide
EPA REG. NO.: 91234-294
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

May cause damage to organs through prolonged exposure (H371+H373)

Suspected of damaging fertility or the unborn child (H361)

Causes eye irritation (H320)

Harmful if swallowed (H302)

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



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Specific target organ toxicity – repeated exposure	2	None	-
Reproductive toxicity	2	Environmental Hazards	Category
Serious eye damage / eye irritation	2B	Hazardous to the aquatic environment, short-term	1
Acute toxicity, oral	4	Hazardous to the aquatic environment, long-term	1

HAZARDS NOT REQUIRING CLASSIFICATION

DO NOT use water-based sprays of this product in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Do not mix or allow to come in contact with any oxidizing agent. Hazardous chemical reaction may occur.

PRECAUTIONARY STATEMENTS

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

Do not breathe mist/spray. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. (P260+P264+P270)

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. (P305+P351+P338+P337+P317)

IF exposed or concerned: Get emergency medical help immediately. (P308+P316)

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

Store locked up. (P405)

Dispose of contents / container using instructions in the product label and in accordance with local / Federal regulations. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Beta-Cyfluthrin	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethyl)-2,2-dimethyl-, (R)-cyano(4-fluoro-3-phenoxyphenyl) methyl ester, (1S)	1820573-27-0	11.8%

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. For emergency medical assistance, call SafetyCall: **1-844-685-9173**. For chemical emergency: spill, leak, fire, exposure or accident, call **CHEMTREC: 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 IN EYES: 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.

5. FIREFIGHTING MEASURES

Flash Point: > 230°F; >110°C

Fire and Explosion Hazards: None known.

Extinguishing Medium: Water, foam, and dry chemical.

Fire Fighting Equipment: Firefighters should wear full protective clothing and self-contained breathing apparatus.

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.

Hazardous Combustion Products: Dangerous gases are evolved in the event of a fire.

NFPA Ratings: Health – 1 / Flammability – 1 / Reactivity - 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

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: Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Chemical Name	CAS No.	Control parameters	Basis
Beta-Cyfluthrin	1820573-27-0	0.01 g/m ³ (TWA)	OES*

*OES: "Occupational Exposure Standard"

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 shirts, long pants, shoes plus socks, protective eyewear (such as goggles, safety glasses, or a face shield), and chemical-resistant gloves made of any waterproof material.

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

Appearance:	opaque white liquid
Odor:	mild sweet
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	> 230°F; > 110°C
Flammability limits (upper/lower):	not available
Flash point:	not available
Auto-ignition temperature:	not available
Decomposition temperature:	not available
pH:	5.0-6.0
Viscosity:	226-11,600 cP @ 24°C 178-8,800 cP @ 39°C
Solubility:	not available
Vapor pressure:	not available
Bulk Density:	8.47 lb/gal (1.015 g/cm ³)
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Freezing.

CHEMICAL STABILITY: Stable under all normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Alkali metals, methanol.

HAZARDOUS DECOMPOSITION PRODUCTS: No decomposition products expected under normal conditions of use.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

The following data is from a substantially similar product:

ORAL TOXICITY (rat LD₅₀): 960-1,1504 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 2,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 1.72 mg/L (4-hr) (highest attainable concentration)

EYE IRRITATION: Mild eye irritation (Rabbit)

SKIN IRRITATION: No skin irritation (Rabbit)

SKIN SENSITIZATION: Not a sensitizer (Guinea pig)

CARCINOGENICITY:

EPA: Not likely to be carcinogenic to humans (beta-cyfluthrin)

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

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

SPECIFIC TARGET ORGAN TOXICITY-SINGLE OR REPEATED EXPOSURE: Neurotoxic effects were seen in both general animal toxicology studies and studies specially designed to measure neurotoxicity. Neurotoxic effects were generally the most sensitive effects for beta-cyfluthrin, as seen in all species, routes, and exposure durations tested.

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

DEVELOPMENTAL / REPRODUCTIVE TOXICITY: Developmental effects have been observed in some animal studies.

12. ECOLOGICAL INFORMATION

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

The following information is for the active ingredient, Beta-cyfluthrin:

AQUATIC TOXICITY

Rainbow trout (LC₅₀ 96-hour): 0.089 mg/L

Bluegill sunfish (96-hour LC₅₀): 0.028 mg/L

Daphnia (48-hour LC₅₀): 0.00029-0.0018 mg/L

AVIAN TOXICITY

Japanese quail (Acute Oral LD₅₀): >2,000 mg/kg-bw

MOBILITY IN SOIL

Beta-Cyfluthrin is classified as immobile compound 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. Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

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

IATA:

Shipped by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (beta-cyfluthrin), 9, PG III

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, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using the toilet, or using tobacco. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. This pesticide is highly toxic to bees exposed to direct treatment or residues on crops or weeds.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT use water-based sprays of this product in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Do not mix or allow to come in contact with any oxidizing agent. Hazardous chemical reaction may occur.

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.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

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