

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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SECTION 1: Identification

Product Identifier

Product Name: Tirade Ultra SC

Product code: EPA Reg. No.: 91234-294

Atticus

Recommended Use of the Product and Restriction on Use

Relevant Identified Uses: Liquid insecticide

Uses Advised Against: Any use other than specified above

Reasons Why Uses Advised Against: Not determined or not applicable.

Manufacturer or Supplier Details

Manufacturer:

United States

Atticus, LLC 940 NW Cary Parkway

Suite 200

Cary, North Carolina 27513

(984) 465-4754

Emergency Telephone Number:

For Chemical Emergency

CHEMTREC

1-800-424-9300 (24 hours)

+1-703-527-3887 (24 hours)

Collect calls accepted

For Emergency Medical Treatment Information

SAFETYCALL

1-844-685-9173 (24 hours)

SECTION 2: Hazard(s) Identification

GHS Classification:

Acute toxicity (oral), category 4

Eye irritation, category 2B

Reproductive toxicity. Effects on or via lactation

Specific target organ toxicity - single exposure, category 2

Specific target organ toxicity - repeated exposure, category 2

Acute aquatic hazard, category 1

Chronic aquatic hazard, category 1

Label elements

Hazard Pictograms:







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Signal Word: Warning

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

H320 Causes eye irritation

H302 Harmful if swallowed

H362 May cause harm to breast-fed children

H371 May cause damage to organs.

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand

P102 Keep out of reach of children

P103 Read label before use

P260 Do not breathe mist/spray.

P264 Wash hands and exposed skin thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P201 Obtain special instructions before use

P263 Avoid contact during pregnancy/while nursing

P301+P312 IF SWALLOWED: Get medical help.

P330 Rinse mouth

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists: Get medical advice or attention.

P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.

P391 Collect spillage

P405 Store locked up

P501 Dispose of contents and container in accordance with federal, state and local regulations.

Hazards Not Otherwise Classified:

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.

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 1820573-27-0	Beta-cyfluthrin	11.8
CAS Number: 57-55-6	Propylene glycol	5-8
CAS Number: 1332-58-7	Kaolin	0.5-2

Additional Information:

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

SECTION 4: First Aid Measures

Description of First Aid Measures

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General Notes:

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: spill, leak, fire, exposure or accident, call CHEMTREC day or night within USA and Canada at 1-800-424-9300 or +1-703-527-3887 (collect calls accepted).

Show this Safety Data Sheet to the doctor in attendance.

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

After Skin Contact:

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

After Eve Contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

After Swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Eye contact may result in irritation, redness, pain, inflammation, itching, burning and tearing.

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time).

Long term exposure may cause harm to breast-fed children.

Immediate Medical Attention and Special Treatment

Specific Treatment:

If exhibiting symptoms of exposure, seek prompt medical attention.

Notes for the Doctor:

Treat symptomatically.

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Water, foam, and dry chemical.

Unsuitable Extinguishing Media:

Do not use water jet.

Specific Hazards During Fire-Fighting:

Thermal decomposition may produce irritating/toxic fumes/gases.

Special Protective Equipment for Firefighters:

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

Special precautions:

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.

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SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

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 further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

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.

Methods and Material for Containment and Cleaning Up:

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.

Reference to Other Sections:

For personal protective equipment see Section 8. For disposal see Section 13.

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States	Beta-cyfluthrin	1820573-2 7-0	TWA: 0.01 mg/m³ (Industry)
OSHA	Kaolin	1332-58-7	8-Hour TWA-PEL: 15 mg/m ³ (total dust)
	Kaolin	1332-58-7	8-Hour TWA-PEL: 5 mg/m³ (respirable fraction)
NIOSH	Kaolin	1332-58-7	REL-TWA: 10 mg/m³ (total dust [up to 10 hr])
	Kaolin	1332-58-7	REL-TWA: 5 mg/m³ (respirable dust [up to 10 hr])
ACGIH	Kaolin	1332-58-7	8-Hour TWA: 2 mg/m³ (respirable particulate matter, containing no asbestos and <1 % crystalline silica)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States(California)	Kaolin		8-Hour TWA-PEL: 2 mg/m³ (respirable dust, containing no asbestos and <1% crystalline silica)
WEEL	Propylene glycol	57-55-6	8-Hour TWA: 10 mg/m ³

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Personal Protection Equipment

Eve and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Applicators and other handlers must wear: long-sleeved shirts, long pants, shoes plus socks, and chemical-resistant gloves made of any waterproof material.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

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.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Appearance	opaque white liquid
Odor	mild sweet
Odor threshold	Not determined or not available.
рН	5.0 - 6.0
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	> 230 °F (> 110 °C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.

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Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Vapor density	Not determined or not available.
Density	8.47 lb/gal (1.015 g/cm3)
Relative density	Not determined or not available.
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	226 - 11,600 cP @ 24 °C; 178 - 8,800 cP @ 39 °C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of Hazardous Reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Freezing.

Incompatible Materials:

Alkali metals, methanol, oxidizing agents

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment:

Harmful if swallowed.

Product Data:

Route	Result
Oral	LD50 Rat: 1,150 mg/kg
Dermal	LD50 Rat: > 2,000 mg/kg
Inhalation	LC50 Rat: > 1.72 mg/L (4 hr (highest attainable concentration))

Substance Data:

Name	Route	Result
Beta-cyfluthrin	oral	LD50 Rat: 211 - 343 mg/kg
	dermal	LD50 Rat: > 5,000 mg/kg
	inhalation	LC50 Rat: 0.082 - 0.532 mg/L (4 hr)

Skin Corrosion/Irritation

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Assessment: Based on available data, the classification criteria are not met.

Product Data:

No skin irritation (rabbit)

Substance Data:

Name	Result
Beta-cyfluthrin	Very slight irritation (rabbit)

Serious Eye Damage/Irritation

Assessment:

Causes eye irritation.

Product Data:

Mild irritation (rabbit)

Substance Data:

Name	Result
Beta-cyfluthrin	Slight irritation (rabbit)

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

Not a sensitizer (guinea pig)

Substance Data:

Name	Result
Beta-cyfluthrin	Not a contact sensitizer

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Species	Result
Beta-cyfluthrin		EPA: Not likely to be carcinogenic to humans

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available. **Substance Data:**

Name	Result
Beta-cyfluthrin	No evidence of mutagenic effects during in vivo and in vitro assays.

Reproductive Toxicity

Assessment:

May cause harm to breast-fed children.

Product Data:

No data available.

Substance Data:

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Name	Result
Beta-cyfluthrin	Beta-Cyfluthrin 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 Beta-Cyfluthrin is related to parental toxicity. Beta-Cyfluthrin is classified as reproductive toxicant in category for effects via lactation, mainly based on coarse tremors in pups of the 2-generation study. As a mechanism study for ocular effects in rat pups suggested possible adverse effect via milk, the active ingredient was classified with an additional category for effects on or via lactation.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause damage to organs.

Product Data:

No data available.

Substance Data:

Name	Result
Beta-cyfluthrin	Causes damage to organs (Nervous system)

Specific Target Organ Toxicity (Repeated Exposure)

Assessment:

May cause damage to organs through prolonged or repeated exposure.

Product Data:

No data available.

Substance Data:

Name	Result	
1	Toxic effects are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity.	

Aspiration toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available. Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Other Information:

Information in this section is provided from a similar formulation.

SECTION 12: Ecological Information

Acute (Short-Term) Toxicity

Assessment:

Very toxic to aquatic life.

This pesticide is toxic to fish, and aquatic invertebrates.

This pesticide is highly toxic to bees exposed to direct treatment or residues on crops or weeds.

Product Data: No data available.

Substance Data:

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Name	Result
Beta-cyfluthrin	Fish LC50 Rainbow trout: 0.089 mg/L (96 hr)
	Fish LC50 Bluegill sunfish: 0.028 mg/L (96 hr)
	Aquatic Invertebrates LC50 Daphnia: 0.00029 - 0.0018 mg/L (48 hr)

Chronic (Long-Term) Toxicity

Assessment:

Very toxic to aquatic life with long lasting effects.

Product Data: No data available. Substance Data: No data available.

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Beta-cyfluthrin	Not rapidly biodegradable

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Beta-cyfluthrin	Does not bioaccumulate.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Beta-cyfluthrin	Beta-Cyfluthrin is classified as an immobile compound in soils.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB** assessment: This product does not contain any substances that are assessed to be a vPvB.

Other Adverse Effects: No data available.

SECTION 13: Disposal Considerations

Disposal Methods:

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Do not contaminate water, food, or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Contaminated packages:

CONTAINER DISPOSAL: Nonrefillable and refillable containers. Refer to the product label for specific container disposal instructions.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

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UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None
Additional Information	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.

International Maritime Dangerous Goods (IMDG)

UN Number	UN3082
UN Proper Shipping Name	Environmentally hazardous substance, liquid, N.O.S. (betacyfluthrin)
UN Transport Hazard Class(es)	9
Packing Group	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	None
Additional Information	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.

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	UN3082
UN Proper Shipping Name	Environmentally hazardous substance, liquid, N.O.S. (betacyfluthrin)
UN Transport Hazard Class(es)	9
Packing Group	III
Environmental Hazards	Marine Pollutant
Special Precautions for User	None

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Additional Information	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.

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA: None of the ingredients are listed. **RCRA:** None of the ingredients are listed.

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

1332-58-7 Kaolin	Listed
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New Jersey Right to Know:

1332-58-7	Kaolin	Listed
57-55-6	Propylene glycol	Listed

New York Right to Know: None of the ingredients are listed.

Pennsylvania Right to Know:

1332-58-7	Kaolin	Listed
57-55-6	Propylene glycol	Listed

California Proposition 65: None of the ingredients are listed.

Additional information:

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

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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.

SECTION 16: Other Information

Abbreviations and Acronyms: None **Disclaimer:**

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.

NFPA: 1-1-0

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End of Safety Data Sheet