

Tirade™

1% DUST INSECTICIDE

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Tirade 1% Dust Insecticide
DESCRIPTION: A Solid Insecticide
EPA Reg. No.: 91234-293
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

WARNING

Harmful if swallowed or inhaled
(H302+H332)

Causes eye irritation (H320)

May cause damage to organs (H371)

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

Suspected of damaging fertility
or the unborn child (H361)

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



HAZARD CLASSIFICATION

Health Hazards

	Category
Acute toxicity, oral	4
Acute toxicity, inhalation	4
Serious eye damage/irritation	2B
Specific target organ toxicity, single exposure	2
Specific target organ toxicity, repeated exposure	2
Reproductive toxicity	2

Physical Hazards

	Category
None	-

Environmental Hazards

	Category
Hazardous to the aquatic environment, acute	1
Hazardous to the aquatic environment, chronic	1

HAZARDS NOT REQUIRING CLASSIFICATION

No specific antidote is available. Treat the patient symptomatically.

PRECAUTIONARY STATEMENTS

Wear protective clothing as described in Section 8 of this document. (P280)

Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust. Use only outdoors or in a well-ventilated area. (P264+P270+P260+P271)

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

IF SWALLOWED: Get emergency medical help immediately. Specific treatment (See Section 4 for additional medical information). Rinse mouth. (P301+P316+P321+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
Cyfluthrin	Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, cyano(4-fluoro-3-phenoxyphenyl)methyl ester	68359-37-5	1.0%

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 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.

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 a 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: No specific antidote is available. Treat the patient symptomatically.

SYMPTOMS OF POISONING: In case of poisoning, call physician or poison Control Center immediately. Have the patient lay down and keep quiet.

5. FIREFIGHTING MEASURES

Flash Point: Not available

Flammability Limits: Not determined

Fire and Explosion Hazards: Dangerous gases are evolved in the event of a fire.

Extinguishing Medium: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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.

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

NFPA Ratings: Health – 2 / Flammability – 1 / Reactivity - 0

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: Contain spillage and minimize spread. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep out of drains, sewers, ditches and water ways. Do NOT contaminate water when disposing of rinse waters.

Spill Cleanup: Avoid creating dust during cleanup. Sweep, scoop or shovel spilled material and place into suitable closed containers for reuse or disposal. After decontamination, spill area can be washed with water. Collect washwater for approved disposal. Place leaking containers in oversize leakproof drums for transport.

7. HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing dust. Keep out of reach of children. DO NOT contaminate feed or food.

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

Components	CAS No.	Control parameters	Update	Basis
Cyfluthrin	68359-37-5	0.01 mg/m ³ (TWA)		OES BCS*
Cyfluthrin (Particulate.)	68359-37-5	5 µg/m ³ (AN ESL)	02 2013	TX ESL
Cyfluthrin (Particulate.)	68359-37-5	50 µg/m ³ (ST ESL)	02 2013	TX ESL

*OES: "Occupational Exposure Standard"

Engineering Controls: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Protective Clothing: Applicators and other handlers must wear long-sleeved shirt, pants, and shoes plus socks.

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:	white powder
Odor:	strong bitter
Melting/freezing point:	not available
Boiling point/Boiling range:	not available
Flammability:	not available
Flammability limits (upper/lower):	not available
Flash point (cc):	not available
Auto-ignition temperature:	not available
Decomposition temperature:	ca. 500°C
pH:	6.83
Viscosity:	not available
Solubility:	not available
Partition coefficient:	not available
Vapor pressure:	not available
Bulk density:	34.9 lbs/cu. ft.
Tap Density:	0.559 g/cm ³ (34.9 lbs. ft ³)
Relative vapor density:	not available
Particle characteristics:	not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames and sparks. Exposure to moisture.

CHEMICAL STABILITY: Stable under recommended storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: No data available.

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

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on a substantially similar product:

ORAL TOXICITY (rat LD₅₀): 1,733-3,084 mg/kg

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

INHALATION TOXICITY (rat LC₅₀): > 1.18 mg/L (4-hour) (highest achievable conc.; no deaths)

EYE IRRITATION: Mild eye irritation (Rabbit)

SKIN IRRITATION: Slight irritation (Rabbit)

SKIN SENSITIZATION: Non-sensitizing (Guinea pig)

CARCINOGENICITY:

EPA: Not likely to be carcinogenic to humans (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 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 highly toxic to fish and aquatic invertebrates. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds.

The following information is for the active ingredient, Cyfluthrin:

AQUATIC TOXICITY

Rainbow trout (LC₅₀ 96-hour): 0.000068 mg/L; (NOAEC): 0.000010 mg/L

Eastern oyster (96-hour EC₅₀): 0.00269 mg/L

Daphnia (48-hour LC₅₀): 0.000025 mg/L; (NOAEC): 0.0000074 mg/L

Green algae (96-hour EC₅₀): > 0.181 mg/L

AVIAN TOXICITY

Bobwhite quail (Acute Oral LD₅₀): >5,000 mg/kg-bw

TERRESTRIAL INVERTEBRATES

Honey bee (LD₅₀): 0.037µg/bee

MOBILITY IN SOIL / BIODEGRADABILITY

Cyfluthrin is classified as an immobile compound in soils. Not rapidly biodegradable.

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: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains cyfluthrin), 9, PG III, Marine Pollutant

IATA:

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

Shipments by air: UN3077, Environmentally hazardous substance, solid, N.O.S. (contains cyfluthrin), 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.



Manufactured for:
Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

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. Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. Avoid breathing dust. Keep out of reach of children. DO NOT contaminate feed or food.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and other aquatic organisms.

PHYSICAL OR CHEMICAL 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

Cyfluthrin (CAS No. 68359-37-5): 1.0%

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: 1.1

Effective Date: 09/21/2023



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