



# SAFETY DATA SHEET

## STRYKER 54

### SECTION 1: IDENTIFICATION

**Product Name:** Stryker 54  
**EPA Registration No.:** 53883-329  
**Recommended Use:** Insecticide; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** N/A – Multiple Active Ingredients  
**Chemical Name of Active Ingredient(s):** Pyrethrins  
Piperonyl butoxide  
**Manufactured for:** Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**

**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

**EMERGENCY OVERVIEW:** Aerosol with an alcohol odor. Extremely flammable aerosol. Causes moderate but temporary eye irritation. May be harmful if inhaled.

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Flammable Aerosol	Category 1
Aspiration Hazard	Category 1
Eye Damage/Irritation	Category 2A
Acute Inhalation Toxicity	Category 4
Specific Target Organ Toxicity – Single Exposure	Category 3

**Signal Word:**

DANGER



**Hazard Statement(s):**

Extremely flammable aerosol.  
May be fatal if swallowed and enters airways.  
Causes serious eye irritation.  
Harmful if inhaled.  
May cause drowsiness or dizziness.

**Precautionary Statement(s):**

**Prevention:** Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
Do not spray on an open flame or other ignition source.  
Pressurized container: Do not pierce or burn, even after use.  
Wear eye protection/face protection.  
Avoid breathing mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.  
Wash hands thoroughly after handling.

**Response: IF SWALLOWED:** Immediately call a poison center/doctor. Do NOT induce vomiting.

**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 advice/attention.

**IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Disposal:** Dispose of contents/container in accordance with Federal, state and local laws and regulations.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Pyrethrum	8003-34-7	0.5%
Piperonyl butoxide	51-03-6	4.0%
Isopropanol	67-63-0	12.0 – 16.0%
Distillates, petroleum, hydrotreated light	64742-47-8	17.0 – 22.0%
Difluoroethane	75-37-6	*

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

### SECTION 4: FIRST AID MEASURES

<b>IF IN EYES:</b>	Hold eye open and rinse slowly and gently with water for 15 to 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.
<b>IF ON SKIN:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF INHALED:</b>	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.
<b>IF INGESTED:</b>	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.

**Most important symptoms/effects, acute and delayed:** Moderate but temporary eye irritation. Drowsiness or dizziness.

### SECTION 5: FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Foam, dry chemical, carbon dioxide or water spray
<b>Unsuitable Extinguishing Media:</b>	Water jet
<b>Hazardous Combustion Products:</b>	Thermal decomposition may produce toxic carbon and nitrogen oxides.
<b>Special Protective Equipment &amp; Precautions:</b>	Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-

contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

**Unusual Fire & Explosion Hazards:**

Compressed gas/flammable aerosol. Containers may burst under fire conditions.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions:** See Section 8 for personal protection equipment.

**Environmental Precautions:** Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

**Methods for Containment:** Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

**Methods for Clean-up:** Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

**Other Information:** None known

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

**Storage:** See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

**Storage Temperature (Min/Max):** Do not expose to temperatures exceeding 50°C/122°F.

**Product Incompatibilities:** Avoid contact with strong oxidizers.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

COMPONENT	OSHA PEL	ACGIH TLV	NIOSH REL
Pyrethrins	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Isopropanol	400 ppm (TWA)	200 ppm (TWA) 400 ppm (STEL)	

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS REQUIRED FOR PRODUCT APPLICATORS, END USERS, AND HANDLERS AND COMES FROM THE FIFRA APPROVED PESTICIDE LABEL:**

Applicators and other handlers of Stryker 54 must wear the following: long-sleeve shirt, long pants, shoes and socks. In addition to the above PPE, applicators applying this product as a space spray in an enclosed area must wear a half-face, full-face or hood-style NIOSH-approved respirator with: any N, R, or P filter with approval prefix TC-84A, or a gas mask with a canister filter with NIOSH approval prefix TC-14G, or a NIOSH-approved powered air purifying respirator (PAPR) with HE filter.

**THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS:**

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and chemical resistant footwear plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and 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**

<b>Appearance:</b>	Aerosol (pressurized liquid)	<b>Upper/Lower Flammability Limits:</b>	Not determined
<b>Odor:</b>	Alcohol	<b>Vapor Pressure:</b>	Not determined
<b>Odor Threshold:</b>	Not determined	<b>Vapor Density:</b>	Not determined
<b>pH (1% dispersion):</b>	4.0 – 5.0	<b>Relative Density (@26°C):</b>	0.825 (liquid concentrate)
<b>Melting /Freezing Point:</b>	Not determined	<b>Solubility in Water:</b>	Not determined
<b>Boiling Point/Range:</b>	Not determined	<b>Partition Coefficient:</b>	Not determined
<b>Flash Point:</b>	<77°F (Liquid Conc.)	<b>Auto-ignition Temperature:</b>	Not determined
<b>Evaporation Rate:</b>	Not determined	<b>Decomposition Temperature:</b>	Not determined
<b>Flammability:</b>	Not applicable	<b>Viscosity:</b>	2.49 cP at 26°C 1.76 cP at 39°C

**SECTION 10: STABILITY AND REACTIVITY**

<b>Reactivity:</b>	No hazardous chemical reactions known.
<b>Chemical Stability:</b>	Stable under normal storage and handling conditions.
<b>Possibility of Hazardous Reactions:</b>	No potential for hazardous reactions known.
<b>Conditions to Avoid:</b>	Temperatures above 50°C/122°F
<b>Incompatible Materials:</b>	Strong oxidizers
<b>Hazardous Decomposition Products:</b>	Thermal decomposition may produce toxic carbon and nitrogen oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Likely Routes of Exposure:</b>	Eye contact, Skin contact, Inhalation, Ingestion
<b>Symptoms of Exposure:</b>	Moderate but temporary eye irritation. Drowsiness and/or dizziness.
<b>Oral LD<sub>50</sub>:</b>	>4,800 mg/kg (Estimated based upon component data)
<b>Dermal LD<sub>50</sub>:</b>	>6,100 mg/kg (Estimated based upon component data)
<b>Inhalation LC<sub>50</sub>:</b>	3.62 mg/L (Estimated based upon component data)
<b>Eye Irritation/Damage:</b>	Estimated to cause moderate but temporary eye irritation based upon component data.
<b>Skin Corrosion/Irritation:</b>	Not anticipated to cause skin irritation based upon component data.
<b>Skin Sensitization:</b>	Not anticipated to cause skin sensitization based upon component data.
<b>Chronic/Subchronic Toxicity:</b>	No data available
<b>Mutagenicity:</b>	No data available
<b>Reproductive Toxicity:</b>	No data available
<b>Neurotoxicity:</b>	No data available
<b>Target Organs:</b>	No data available
<b>Aspiration Hazard:</b>	Contains petroleum distillates so concentrate prior to adding propellant may be an aspiration hazard.
<b>Carcinogenicity:</b>	See table below.

Chemical Name	ACGIH	IARC	NTP	OSHA
Piperonyl butoxide		Group 3		
Isopropanol		Group 3		

**SECTION 12: ECOLOGICAL INFORMATION****Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

**ECOTOXICITY DATA:**

The data presented below is for piperonyl butoxide technical.

**Fish Toxicity:**

Rainbow trout: 96 hr LC<sub>50</sub> = 1.9 ppm

Sheepshead minnow: 96 hr LC<sub>50</sub> = 3.94 ppm

**Aquatic Invertebrate Toxicity:**

*Daphnia magna*: 48 hr EC<sub>50</sub> = 0.51 ppm

**Aquatic Plant Toxicity:**

No data available

**Avian Toxicity:**

No data available

**Honeybee Toxicity:**

No data available

**ENVIRONMENTAL EFFECTS:**

**Persistence and Degradability:** No data available

**Bioaccumulation:** No data available

**Mobility:** No data available

**Other Adverse Effects:** No data available

**SECTION 13: DISPOSAL CONSIDERATIONS****Waste Disposal:**

**Refer to the pesticide label for full information on disposal.** Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

**Container Disposal:**

**Refer to the pesticide label for full information on disposal.** When possible, triple rinse the container and offer for recycling if available.

**RCRA Characteristics:**

It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION****DOT**

UN1950, Aerosols, flammable (contains Difluoroethane, pyrethrins), 2.1

**(Ground):**

This product may qualify as Limited Quantity.

**IMDG****(Sea):**

UN1950, Aerosols, flammable (contains Difluoroethane, pyrethrins), 2.1, Marine Pollutant

**IATA****(Air):**

UN1950, Aerosols, flammable (contains Difluoroethane, pyrethrins), 2.1

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under 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. Following is the hazard information as required on the pesticide label:

**CAUTION**

Contains petroleum distillate. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear: Long-sleeved shirt and long pants, socks, and shoes.

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** Acute (Immediate)

**Section 313** – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %
Piperonyl butoxide	51-03-6	4.0%
Isopropanol	67-63-0	12.0 – 16.0%

**CERCLA** – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Chemical Name	CAS Number	RQ	Quantity of Finished Product
Pyrethrins	8003-34-7	1 lb	5.8 gallons (concentrate)

**CALIFORNIA PROPOSITION 65:**

Chemical Name	CAS Number	Prop 65 Category(ies)
None listed		

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Pyrethrins	X	X	X
Isopropanol	X	X	X
Piperonyl butoxide	X	X	X
1,1-Difluoroethane	X		

**SECTION 16: OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 3	<b>Instability</b> 0	<b>Special Hazards</b> – None
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**Revision Date:** September 24, 2021

**Document Superseded:** December 10, 2017

**Revision Note:**

Added clarification statements to Section 8, updated FIFRA label information in Section 15.

# Tirade™

## 1% DUST

### SAFETY DATA SHEET

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

#### 1. IDENTIFICATION

**PRODUCT NAME:** Tirade 1% Dust  
**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

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

None -

###### Environmental Hazards

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.



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

## 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 <sup>3</sup> (TWA)		OES BCS*
Cyfluthrin (Particulate.)	68359-37-5	5 µg/m <sup>3</sup> (AN ESL)	02 2013	TX ESL
Cyfluthrin (Particulate.)	68359-37-5	50 µg/m <sup>3</sup> (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

<b>Appearance:</b>	white powder
<b>Odor:</b>	strong bitter
<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>	not available
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	ca. 500°C
<b>pH:</b>	6.83
<b>Viscosity:</b>	not available
<b>Solubility:</b>	not available
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Bulk density:</b>	34.9 lbs/cu. ft.
<b>Tap Density:</b>	0.559 g/cm <sup>3</sup> (34.9 lbs. ft <sup>3</sup> )
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available



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

## 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 LD<sub>50</sub>):** 1,733-3,084 mg/kg

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

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 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 (LC<sub>50</sub> 96-hour): 0.000068 mg/L; (NOAEC): 0.000010 mg/L

Eastern oyster (96-hour EC<sub>50</sub>): 0.00269 mg/L

Daphnia (48-hour LC<sub>50</sub>): 0.000025 mg/L; (NOAEC): 0.0000074 mg/L

Green algae (96-hour EC<sub>50</sub>): > 0.181 mg/L

### AVIAN TOXICITY

Bobwhite quail (Acute Oral LD<sub>50</sub>): >5,000 mg/kg-bw

### TERRESTRIAL INVERTEBRATES

Honey bee (LD<sub>50</sub>): 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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