

TIGRIS™

BIFENTHRIN LFC

SAFETY DATA SHEET

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

1. IDENTIFICATION

PRODUCT NAME: Tigris Bifenthrin LFC

DESCRIPTION: Liquid insecticide

EPA Reg. No.: 92647-27

COMPANY IDENTIFICATION: Tigris, LLC
P.O. Box 250
10025 Hwy. 264 Alternate
Middlesex, NC 27557

2. HAZARD IDENTIFICATION

DANGER

Toxic if swallowed (H301)

Causes damage to organs (central nervous system) (H370)

Causes damage to organs (central nervous system) through prolonged or repeated exposure (H372)

Suspected of causing cancer (H351)

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



HAZARD CLASSIFICATION

Health Hazards

Acute toxicity, oral

Specific target organ toxicity (single exposure)

Specific target organ toxicity (repeated exposure)

Carcinogenicity

Category

3

1

1

2

Physical Hazards

None

Category

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Environmental Hazards

Hazardous to the Aquatic Environment – long-term

Hazardous to the Aquatic Environment – short-term

Category

1

1

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

Do not handle until all safety precautions have been read and understood. (P202)

Do not breathe dust/mist/spray. (P260)

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

Wash hands and exposed skin thoroughly after handling. (P264)

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

IF SWALLOWED: Immediately call a POISON CENTER / doctor. For specific treatment (see Section 4 of this document). Rinse mouth.

(P301+P310+P321+P330)

IF exposed or concerned: Call a POISON CENTER / doctor. For specific treatment (see Section 4 of this document). (P308+P311+P321)

Store locked up. (P405)

Avoid release to the environment not in accordance with the product label. (P273)

Collect spillage. (P391)

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
Bifenthrin	(2 methyl[1,1' -biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate	82657-04-3	17.15%
Propylene glycol	-	57-55-6	5-10%

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 information concerning this product, call the poison control center at **1-800-222-1222**.

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.

NOTE TO PHYSICIAN: This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.



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5. FIREFIGHTING MEASURES

Flash Point: Not determined

Fire and Explosion Hazards: None known.

Extinguishing Medium: Foam, dry chemical, or carbon dioxide (CO₂). Soft stream or water fog only if necessary.

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. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff.

Hazardous Combustion Products: Oxides of carbon, hydrogen chloride, hydrogen fluoride, and sulfur oxides.

NFPA Ratings: Health – 2 / 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 any waterways or low areas. Do not flush to drain or soil. Contain contaminated water. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Spill Cleanup: Clean up spill immediately, observing precautions in Section 8. Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach, water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.

7. HANDLING AND STORAGE

Handling: Avoid contact with 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.

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

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

Protective Clothing: Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, and waterproof gloves. Mixers and loaders must also wear protective eyewear.

General: 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/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: off-white viscous liquid

Odor: latex

Melting/freezing point: not available

Boiling point/Boiling range: not available

Flammability: not available

Flammability limits (upper/lower): not available

Flash point: not available

Flame Projection/Extension: not available

Auto-ignition temperature: not available

Decomposition temperature: not available

pH: 6.1

Kinematic viscosity: not available

Solubility: not available

Partition coefficient: not available

Vapor pressure: not available

Density: 1.05 g/mL (8.75 lb/gal)

Relative vapor density: not available

Particle characteristics: not available

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, flames, and sparks.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: None known

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, hydrogen chloride, hydrogen fluoride, and sulfur oxides.

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 LD₅₀): 175 mg/kg

DERMAL TOXICITY (rabbit LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.28 mg/L (4-hr)

EYE IRRITATION (rabbit): minimally irritating

SKIN IRRITATION (rabbit): Slightly irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

NTP: Not listed

IARC: Not listed

EPA: Group C – Possible human carcinogen (bifenthrin)

MUTAGENIC TOXICITY: Animal Testing did not show any mutagenic effects.

REPRODUCTIVE TOXICITY / TERATOGENICITY: No toxicity to reproduction in animal studies from the active ingredient.

OTHER TOXICITY: Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge. Long-term exposure causes neurotoxicity (tremors and impaired gait) in the early exposure in animal studies, but tremors disappears with continued exposure. Bifenthrin caused damage to the central nervous system through single and prolonged or repeated exposure.



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12. ECOLOGICAL INFORMATION

This pesticide is extremely 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, Bifenthrin:

Rainbow trout: (96h LC50): 0.15 µg/L

Daphnia: (48h EC50): 1.6 µg/L (NOAEC): 0.0013 µg/L

Shrimp: (96h LC50): 0.004 µg/L

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: Nonrefillable container. Do not reuse or refill this container. See container labeling for complete disposal instructions.

14. TRANSPORT INFORMATION

UN Number: UN3352

Proper Shipping Name: Pyrethroid pesticide, liquid toxic

Transport Hazard Class: 6.1

Packing Group: III

Hazard Zone: None

Marine Pollutant: Yes¹

Hazardous Substance RQ: None

Labels / Placards: US-DOT: Class 6.1 Poisonous Substance

IMDG, IATA: Class 6.1 Poisonous Substance

Emergency Guide: 151 (NAERG – North American Emergency Response Guide)

¹**Marine Pollutant Note:** Ground-only shipments are excluded from Marine Pollutant labeling requires as per 49CFR172.101 Appendix B (4). For any shipments involving all or part of the transport by vessel, the shipment must be classified as a 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

WARNING: May be fatal if swallowed. Causes moderate eye irritation.

See inside label booklet for additional precautionary statements.

ENVIRONMENTAL HAZARDS

This pesticide is extremely 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 use of bifenthrin is prohibited in areas that may result in exposure of endangered species to bifenthrin.

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

Bifenthrin (CAS No. 82657-04-3) (17.15%)

CERCLA Reportable Quantity (RQ) –

None

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.



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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 Tigris, 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 TI-GRIS, 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 TIGRIS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

Effective Date: 09/23/2019



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