


NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	2	Health	Not regulated by the U.S. DOT as a hazardous material for ground shipment. See Section 14 for Additional Information.	
2	Moderate	1	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Tundra LFC
EPA Registration #:	70506-305-1381
Common Name:	Bifenthrin
Chemical Description:	(2 methyl [1,1-biphenyl] 3-yl), methyl 3 (2-chloro, 3,3,3-trifluoro-1-propenyl) 2,2-dimethyl, cyclopropanecarboxylate
Recommended Uses:	Insecticide
Restrictions for Use:	Activities contrary to label recommendation
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
POTENTIAL HEALTH EFFECTS:	
Eyes: May cause slight irritation.	
Skin: Skin exposure may result in rashes, numbing, burning or tingling sensation which is reversible and usually subsides within 12 hours.	
Inhalation: May cause irritation of respiratory tract.	
Ingestion: MAY BE HARMFUL IF SWALLOWED.	
Preexisting Conditions: NA	
Chronic Health Effects: NA	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION:	
Acute toxicity – Dermal	Category 4
Skin sensitization	Category 1
SIGNAL WORD: CAUTION	
HAZARD STATEMENTS:	
Harmful in contact with skin May cause an allergic skin reaction	
	
PRECAUTIONARY STATEMENTS:	
Prevention: Wear protective gloves/protective clothing/eye protection/face protection	

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Response:	Do not get in eyes, on skin, or on clothing Contaminated work clothing should not be allowed out of the workplace IF exposed IF ON SKIN: Wash with plenty of soap and water Call a POISON CENTER or doctor if you feel unwell Wash contaminated clothing before reuse If skin irritation or rash occurs: Get medical advice/attention
Disposal:	Dispose of contents/container to an approved waste disposal plant

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Bifenthrin technical	17.15	82657-04-3
1,2-Benzisothiazolin-3-one	0.2	2634-33-5
*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(i).		
See Section 8 for exposure limits.		

SECTION 4: FIRST AID MEASURES

Inhalation:	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 physician or poison control center immediately.
Ingestion:	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
Eyes:	Hold eye open and rinse slowly and gently with water for 30 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.
Skin:	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Protection of First-aiders:	Use personal protective equipment.
Notes to physician:	This product contains a pyrethroid. Treatment is symptomatic and supportive.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO ₂). Aquatic. Foam.
Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.
Hazardous Combustion Products: Carbon monoxide. Carbon dioxide (CO ₂). Hydrogen chloride. Hydrogen fluoride.
Unusual Fire and Explosion Hazards: Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.
Environmental Precautions: Prevent further leakage or spillage if safe to do so. Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.
Methods for Containment and Clean-up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

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SECTION 7: HANDLING AND STORAGE

Handling: Keep out of reach of children. Keep from freezing. Wear personal protective equipment. Keep away from heat, sparks and open flame. - No smoking. Remove and wash contaminated clothing before re-use.

Storage: Keep in a dry place. Keep containers tightly closed in a cool, well-ventilated place.

Incompatible Materials: Strong oxidizing agents.

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component: This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Respiratory Protection: Effective dust mask.

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

Protective Gloves: Wear protective gloves/clothing. Chemical resistant gloves.

Eye Protection: Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.

Other Protective Clothing or Equipment: Coveralls. Socks and footwear.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous Liquid	Specific Gravity (H₂O=1):	1.012 g/mL
Vapor Pressure (mm Hg):	No data available	Density (lbs/gallon):	8.45 lbs/gallon
Vapor Density (Air=1):	No data available	Melting Point/Freezing Point:	9.37 °C
Solubility in Water (wt %):	No data available	Boiling Point/Range:	No data available
Viscosity:	No data available	pH:	8.37
Appearance and odor:	White To Off-white and Latex paint like	Flash Point:	No data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Not determined

Skin Effects: LD50 Dermal > 5000 mg/kg (rat)

Acute Inhalation Effects: LC50 Inhalation > 5.06 mg/l (rat)

Acute Oral Effects: LD50 Oral 550 mg/kg (rat)

Specific Target Organ

Toxicity: Not determined

CHRONIC TOXICITY

Chronic Effects: Not determined

Carcinogenicity: BIFEN

In studies with laboratory animals, Bifenthrin technical did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals to Bifenthrin technical. In lifetime feeding studies conducted with rodents a slight increase in the incidence of urinary bladder tumors at the highest dose in male mice was considered to be an

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	equivocal response, not evidence of a clear compound-related effect. The overall absence of genotoxicity has been demonstrated in mutagenicity tests with Bifenthrin. Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings and liver and kidney damage. There is no sufficient evidence to suggest that aromatic hydrocarbons are reproductive toxicants, mutagens or developmental toxicants.
Mutagenicity:	No data available
Teratogenicity:	Not determined
Reproductive Toxicity:	No data available

SECTION 12: ECOLOGICAL INFORMATION					
ENVIRONMENTAL SUMMARY: Marine Pollutant.					
ECOTOXICITY DATA:					
Fish Acute and Prolonged Toxicity and Aquatic Invertebrate Acute Toxicity: Bifenthrin: Highly toxic to fish and aquatic arthropods (LC50 values between 0.0038 to 17.8 ug/L.					
Aquatic Plant Toxicity:	No data available				
Bird Acute and Prolonged Toxicity:	Bifenthrin: Slightly toxic to water fowl and upland game birds (LD50 between 1800 to >2150 mg/kg)				
Honeybee Toxicity:	No data available				
ENVIRONMENTAL EFFECTS:					
Soil Absorption/Mobility:	No data available				
Persistence and degradability:	No data available				
Bioaccumulative Potential:	Bioaccumulative potential.				
	<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Chemical name</th> <th style="text-align: center;">Log Pow</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1,2-Benzisothiazolin-3-one 2634-33-5</td> <td style="text-align: center;">0.76</td> </tr> </tbody> </table>	Chemical name	Log Pow	1,2-Benzisothiazolin-3-one 2634-33-5	0.76
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1,2-Benzisothiazolin-3-one 2634-33-5	0.76				
Other adverse effects:	No data available				

SECTION 13: DISPOSAL CONSIDERATIONS	
Waste:	Dispose of in accordance with applicable Federal, state and local laws and regulations.
Container:	Refer to product label.
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: TRANSPORT INFORMATION	
DOT:	Not regulated when shipped domestically by highway in non-bulk containers as per 49 CFR 171.4
(Ground)	UN3082, Environmentally hazardous substance, Liquid, N.O.S (Bifenthrin), Marine Pollutant, 9, PG III
IMDG:	UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Bifenthrin), Yes, 9, PG III
(Sea)	
IATA:	UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Bifenthrin), IMDG - Marine Pollutant, 9, PG III
(Air)	
TDG:	When shipped in Canada domestic highway non-bulk this product can be shipped as not regulated as per TDG
(Canada)	1.45.1 UN3082, Environmentally hazardous substance, Liquid, N.O.S (Bifenthrin) Marine Pollutant, 9, PG III

Section 15—Regulatory Information	
International Inventories	
USINV	Present
DSL/NDSL	Not present
EINECS/ELINCS	Not Present
ENCS	Not Present
China	Present
KECL	Present

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PICCS Not Present

AICS Not Present

TSCA Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

SARA Title III Information:

Section 302 - Extremely hazardous substances: None listed.

Section 311/312 – Hazard Categories: None listed.

Section 313 – The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

None listed.

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

None

California Proposition 65:

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name	CAS #	State(s)
Bifenthrin technical	82657-04-3	NJ

WHMIS Classification: Not determined.

Section 16—Other

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

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