



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
US OSHA Hazard Communication Standard (29 CFR 1910.1200)

Issuing Date 14-Feb-2024

Revision Date 14-Feb-2024

Revision Number 1

## 1. Identification

### Product identifier

Product Name Squadron LFC

### Other means of identification

Product Code 2120940

CAS Number MIXTURE

UN-No UN3352

Synonyms None

Other Information EPA Reg. No. 2749-644

### Recommended use of the chemical and restrictions on use

Recommended Use Agriculture

Restriction on Use Do not use where contact with food or drinking water is possible Avoid prolonged contact with eyes, skin, and clothing

### Details of the supplier of the safety data sheet

#### Supplier Address

ACETO LIFE SCIENCES, L.L.C.  
4 Tri Harbor Court  
Port Washington, NY 11050-4661  
Phone: (516) 627-6000  
Fax: (516) 627-6093  
Email: aceto@aceto.com

### Emergency telephone number

Emergency telephone number(s) ChemTrec: 1-800-424-9300  
Outside of the United States: 1-703-527-3887

## 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2
Specific target organ toxicity (single exposure)	Category 1
Specific target organ toxicity (repeated exposure)	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

**Label elements****Danger****Hazard statements**

Toxic if swallowed.  
 Harmful if inhaled.  
 Suspected of causing cancer.  
 Causes damage to organs.  
 Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements - Prevention**

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Use personal protective equipment as required.  
 Wash face, hands and any exposed skin thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Use only outdoors or in a well-ventilated area.

**Precautionary Statements - Response**

IF exposed or concerned: Call a POISON CENTER or doctor.  
 Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
 Rinse mouth.

**Precautionary Statements - Storage**

Store locked up.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

**Other Information**

No information available.

**3. Composition/information on ingredients****Substance**

**Synonyms** Not available

**Formula** Not available

Chemical name	CAS No.	Weight-%	Trade secret
Bifenthrin Technical	82657-04-3	17.15	
Other Ingredients	N/A	82.85	

## 4. First-aid measures

### Description of first aid measures

<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) 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>Eye contact</b>	Hold eyes 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 further treatment advice.
<b>Skin contact</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Call a physician or poison control center immediately. 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. Call a physician or poison control center immediately. 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 and effects, both acute and delayed

<b>Symptoms</b>	No information available.
<b>Effects of Exposure</b>	No information available.

### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Treat symptomatically.
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## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Soft stream or water fog only if necessary.
<b>Unsuitable extinguishing media</b>	No information available.
<b>Specific hazards arising from the chemical</b>	No information available.
<b>Hazardous Combustion Products</b>	Carbon oxides. Sulfur oxides. Hydrogen Chloride. Hydrogen fluoride.
<b>Explosion Data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Ensure adequate ventilation.
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**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**7. Handling and storage****Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

**8. Exposure controls/personal protection****Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Bifenthrin Technical 82657-04-3	-	-	-
Other Ingredients N/A	-	-	-

**Appropriate engineering controls**

**Engineering controls** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Opaque White liquid
<b>Color</b>	Opaque; White
<b>Odor</b>	Mildly Sweet
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	5.79 (1% Disersion)	None known
<b>pH (as aqueous solution)</b>		None known
<b>Melting point / Freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known
<b>Flash Point</b>	> 110 °C / >230 °F	None known
<b>Evaporation Rate</b>	No data available	None known
<b>Flammability (solid, gas)</b>	No data available	None known
<b>Flammability Limit in Air</b>		None known
<b>Upper flammability limit</b>	No data available	
<b>Lower flammability limit</b>	No data available	
<b>Vapor Pressure</b>	No data available	None known
<b>Vapor Density</b>	No data available	None known
<b>Relative density</b>	No data available	None known
<b>Water solubility</b>	No data available	None known
<b>Solubility in other solvents</b>	No data available	None known
<b>Partition coefficient: n-octanol/water</b>	No data available	None known
<b>Autoignition temperature °C</b>	No data available	No information available
<b>Decomposition temperature</b>		None known
<b>Kinematic Viscosity</b>	No data available	None known
<b>Dynamic Viscosity</b>		None known

**Other information**

<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Softening Point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC content</b>	No information available
<b>Liquid Density</b>	Pycnometer Density: 1.04 g/cm <sup>3</sup> (8.68 lb/gal) @ 25 C
<b>Bulk density</b>	No information available

**10. Stability and reactivity**

<b>Reactivity</b>	No information available.
<b>Chemical stability</b>	Stable under normal conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	None known based on information supplied.
<b>Incompatible materials</b>	None known based on information supplied.
<b>Hazardous decomposition products</b>	Carbon oxides. Hydrogen Chloride. Hydrogen fluoride. Sulfur oxides.

**11. Toxicological information****Information on likely routes of exposure**

<b>Inhalation</b>	Avoid breathing dust, fume, gas, mist, vapors and spray.
<b>Eye contact</b>	Avoid contact with eyes.

**Skin contact** Substance may cause slight skin irritation. Avoid contact with skin and clothing.

**Ingestion** Do not take internally.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Large doses of bifenthrin ingested by laboratory animals produced signs of toxicity including convulsions, tremors and bloody nasal discharge.

**Acute toxicity**

**Numerical measures of toxicity**

No information available

The following values are calculated based on chapter 3.1 of the GHS document

**Oral LD50** 175 (rat) mg/kg  
**Dermal LD50** > 5,000 mg/kg (rabbit)  
**LC50 Inhalation:** > 2.28 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Bifenthrin Technical 82657-04-3	-	-	-
Other Ingredients N/A	-	-	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Bifenthrin Technical 82657-04-3	-	Group 2A	-	X
Other Ingredients N/A	-	cyclohexanone (108-94-1) 3	-	-

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

**Other Adverse Effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Bifenthrin Technical 82657-04-3	0.822 mg/L - 72 h EC50	0.1 µg/L - 96 h LC50 0.012 µg/L - 21 d NOEC	-	0.11 µg/L - 48 h EC50 0.0013 µg/L - 21 d NOEC
Other Ingredients N/A	-	-	-	-

**Persistence/Degradability** Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.

**Bioaccumulation** Bifenthrin: The substance has some potential to bioaccumulate in the environment.1.

Chemical name	Partition coefficient
Bifenthrin Technical 82657-04-3	-
Other Ingredients N/A	-

**Mobility in Soil** Bifenthrin: Immobile, Not expected to reach groundwater.

**Other adverse effects** No information available.

## 13. Disposal considerations

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

### DOT

**UN-No** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic  
**Transport hazard class(es)** 6.1  
**Packing Group** III  
**Special Provisions** IB3, T7, TP2, TP28  
**DOT Marine Pollutant** NP  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic, 6.1, III

### TDG

**UN-No** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic

**Transport hazard class(es)** 6.1  
**Packing Group** III  
**Special Provisions** 16  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin Technical), 6.1, III

**MEX**

**UN-No** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic  
**Transport hazard class(es)** 6.1  
**Packing Group** III  
**Technical Name** Bifenthrin Technical  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin Technical), 6.1, III  
**Special Provisions** 61, 223, 274

**ICAO**

**UN-No** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic  
**Transport hazard class(es)** 6.1  
**Packing Group** III  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin Technical), 6.1, III  
**Special Provisions** A3, A4

**IATA**

**UN number or ID number** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Technical Name** Bifenthrin Technical  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin Technical), 6.1, III ,Marine pollutant  
**Special Provisions** A3, A4  
**ERG Code** 6L

**IMDG**

**UN number or ID number** UN3352  
**Proper Shipping Name** Pyrethroid pesticide, liquid, toxic  
**Transport hazard class(es)** 6.1  
**Packing Group** III  
**EmS No.** F-A, S-A  
**Special Provisions** 61, 223, 274  
**Marine pollutant** P  
**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin Technical), 6.1, III

## 15. Regulatory information

**International Inventories**

**TSCA** Does not comply

Chemical name	CAS No.	US TSCA Inventory listing	US TSCA inactive/active designation
Bifenthrin Technical	82657-04-3	-	Unknown *
Other Ingredients	N/A	-	Unknown *

Chemical name	CAS No.	References
Bifenthrin Technical	82657-04-3	-
Other Ingredients	N/A	-



<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Does not comply
<b>Japan (ENCS)</b>	Does not comply
<b>China (IECSC)</b>	Does not comply
<b>Korea (KECL)</b>	Does not comply
<b>Philippines (PICCS)</b>	Does not comply
<b>AIIC</b>	Does not comply
<b>NZIoC</b>	Does not comply

**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 Chemical Substances/European 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

**AIIC** - Australian Inventory of Industrial Chemicals

**NZIoC** - New Zealand Inventory of Chemicals

### Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). 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.

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Bifenthrin Technical 82657-04-3	-	-	-	-
Other Ingredients N/A	-	-	-	-

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Bifenthrin Technical 82657-04-3	-	-	
Other Ingredients N/A	-	-	

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** 2749-644

**EPA Statement**

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. 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 by Safety Data Sheets, and for workplace labels of non-pesticide chemicals.

**16. Other information**

**NFPA** Health hazards 2 Flammability 1 Instability 0 Special hazards -

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AEGl(s))  
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
 U.S. Environmental Protection Agency High Production Volume Chemicals  
 Food Research Journal  
 Hazardous Substance Database  
 International Uniform Chemical Information Database (IUCLID)  
 National Institute of Technology and Evaluation (NITE)  
 Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
 NIOSH (National Institute for Occupational Safety and Health)  
 National Library of Medicine's ChemID Plus (NLM CIP)  
 National Library of Medicine's PubMed database (NLM PUBMED)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Issuing Date** 14-Feb-2024  
**Revision Date** 14-Feb-2024  
**Revision Summary** No information available.

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**