



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 22-Apr-2015

Revision date 23-Apr-2015

Revision Number: 1

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

### Product identifier

Product Description: Bifenture LFC

### Other means of identification

Item#: 12-LFC  
UN-No UN3082  
Synonyms Not Available  
Registration number(s) 70506-305

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

Recommended use Insecticide.  
Uses advised against Activities contrary to label recommendation

### Details of the Supplier of the Safety Data Sheet

#### Supplier Address

United Phosphorus Inc.  
630 Freedom Business Center  
Suite 402  
King of Prussia, PA 19406

#### Emergency telephone number

Company Phone Number 1-800-438-6071  
Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887  
Medical: Rocky Mountain Poison Control Center  
(866) 673-6671 (24hrs)

## 2. Hazards Identification

### Classification

#### OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Skin sensitization	Category 1

### Label elements

#### EMERGENCY OVERVIEW

#### WARNING

#### hazard statements

Harmful in contact with skin  
May cause an allergic skin reaction



**appearance** white To Off-white      **Physical state** viscous liquid      **Odor** Latex paint like

**Precautionary Statements - Prevention**

Wear protective gloves/protective clothing/eye protection/face protection  
Do not get in eyes, on skin, or on clothing  
Contaminated work clothing should not be allowed out of the workplace

**Precautionary Statements - Response**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards Not Otherwise Classified (HNOC)****OTHER INFORMATION**

- Very toxic to aquatic life with long lasting effects
- Very toxic to aquatic life

### 3. Composition/information on Ingredients

Chemical name	CAS-No	Weight %	Trade secret
Bifenthrin technical	82657-04-3	17.15	
1,2-Benzisothiazolin-3-one	2634-33-5	0.2	
Earth clay	8031-18-3	5	

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First aid measures

**FIRST AID MEASURES**

<b>Eye contact</b>	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.
<b>Skin contact</b>	Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
<b>Inhalation</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 physician or poison control center immediately.
<b>Ingestion</b>	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment.

**Most Important Symptoms and Effects, Both Acute and Delayed**

**Most Important Symptoms and Effects**      No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed**

**Notes to physician**      This product contains a pyrethroid. Treatment is symptomatic and supportive.

## 5. Fire-fighting measures

### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Water. Foam.

**Unsuitable extinguishing media** No information available.

### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Hydrogen chloride. Hydrogen fluoride.

### Explosion data

### Protective equipment and precautions for firefighters

Use personal protective equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Provide adequate ventilation. Avoid contact with the skin and the eyes. Wear protective gloves/clothing and eye/face protection.

### Environmental Precautions

**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 and material for containment and cleaning up

**Methods for 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.

## 7. Handling and Storage

### Precautions for safe handling

**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.

### Conditions for safe storage, including any incompatibilities

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

**incompatible materials** Strong oxidizing agents.

## 8. Exposure Controls/Personal Protection

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

**Engineering controls** Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

### Personal protective equipment

#### **Eye/Face 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

<b>Skin protection</b>	occur, wear: Goggles.
<b>Respiratory protection</b>	Wear protective gloves/clothing. Coveralls. Chemical resistant gloves. Socks and footwear. Effective dust mask.

**General hygiene considerations**

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

## 9. Physical and Chemical Properties

**Information on basic physical and chemical properties**

<b>Physical state</b>	viscous liquid	<b>Odor</b>	Latex paint like
<b>appearance</b>	white To Off-white		
<b>color</b>	No information available		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
<b>pH</b>	8.37	
<b>Melting point/freezing point</b>	9.37 °C / 49 °F	
<b>Boiling Point/Range</b>	No information available	
<b>Flash Point</b>	No information available	
<b>Evaporation Rate</b>	No information available	
<b>flammability (solid, gas)</b>	No information available	
<b>Flammability limit in air</b>		
<b>Upper Flammability Limit</b>	No information available	
<b>Lower Flammability Limit</b>	No information available	
<b>vapor pressure</b>	No information available	
<b>Vapor Density</b>	No information available	
<b>Specific gravity</b>	1.012 g/mL	
<b>Water solubility</b>	No information available	
<b>Solubility in Other Solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition temperature</b>	No information available	
<b>decomposition temperature</b>	No information available	
<b>Viscosity, kinematic</b>	No information available	
<b>Dynamic viscosity</b>	No information available	
<b>Explosive properties</b>	No information available	
<b>Oxidizing properties</b>	No information available	

**OTHER INFORMATION**

<b>Softening point</b>	No information available
<b>molecular weight</b>	No information available
<b>VOC Content</b>	No information available
<b>density</b>	No information available
<b>Bulk density</b>	No information available

## 10. Stability and Reactivity

**Reactivity**

no data available

**Chemical stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

<b>Hazardous polymerization</b>	Hazardous polymerisation does not occur.
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**Conditions to avoid**

Extremes of temperature and direct sunlight.

**incompatible materials**

Strong oxidizing agents.

**Hazardous decomposition products**

Carbon oxides.

**11. Toxicological Information****Information on Likely Routes of Exposure**

<b>Product information</b>	Bifenture LFC: Acute toxicity = Acute Oral 550 mg/kg; Acute dermal >5,000 mg/kg; Acute inhalation >5.06 mg/L; Eye irritation Mildly irritating; Skin irritation Non-irritating; Dermal sensitization Non-sensitizing
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause slight irritation.
<b>Skin contact</b>	Skin exposure may result in rashes, numbing, burning or tingling sensation which is reversible and usually subsides within 12 hours.
<b>Ingestion</b>	MAY BE HARMFUL IF SWALLOWED.

**Information on Toxicological Effects**

**Symptoms** No information available.

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

<b>sensitization</b>	No information available.
<b>Mutagenic effects</b>	No information available.
<b>Carcinogenicity</b>	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 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.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

**Numerical Measures of Toxicity - Product information**

<b>LD50 Oral</b>	550 mg/kg (rat)
<b>LD50 Dermal</b>	> 5000 mg/kg (rat)
<b>LC50 Inhalation:</b>	> 5.06 mg/l (rat)

**12. Ecological Information**

Marine Pollutant.

**ecotoxicity**

Bifenthrin : Highly toxic to fish and aquatic arthropods (LC50 values between 0.0038 to 17.8 ug/L. Slightly toxic to water fowl and upland game birds (LD50 between 1800 to >2150 mg/kg)

**Persistence/Degradability**

No information available.

**Bioaccumulation/ Accumulation**

Bioaccumulative potential.

Chemical name	Log Pow
1,2-Benzisothiazolin-3-one 2634-33-5	1.3

**Other Adverse Effects**

No information available

### 13. Disposal Considerations

**Waste Treatment Methods****Waste Disposal Method**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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.

**Contaminated packaging**

Refer to product label.

### 14. Transport Information

**DOT**

When shipped domestically by highway in non-bulk containers this product can be shipped as not regulated.

**UN-No**

UN3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s (Bifenthrin)

**Hazard class**

9

**Packing group**

PG III

**Marine Pollutant**

Marine Pollutant.

**TDG**

When shipped in Canada domestic highway non-bulk this product can be shipped as Not regulated as per TDG 1.45.1

**UN-No**

UN3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin)

**Hazard class**

9

**Packing group**

PG III

**Marine Pollutant: Y or N [List Ingredient(s) with %]**

Marine pollutant.

**ICAO****UN-No**

UN3082

**Proper shipping name**

Environmentally hazardous substance, liquid, n.o.s (Bifenthrin)

**Hazard class**

9

**Packing group**

PG III

**Description**

Marine Pollutant

**IATA****UN-No**

UN3082

**Proper shipping name**

Environmentally hazardous substances, liquid, n.o.s (Bifenthrin)

**Hazard class**

6.1

**Packing group**

PG III

**Description**

Marine Pollutant

**IMDG/IMO**

<b>UN-No</b>	UN3082
<b>Proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s (Bifenthrin)
<b>Hazard class</b>	6.1
<b>Packing group</b>	PG III
<b>Marine Pollutant</b>	Yes

## 15. Regulatory Information

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:

**signal word** CAUTION

**Restricted Use Pesticide. Harmful if absorbed through the skin. Harmful if swallowed. Toxic to fish and aquatic organisms.**

### International Inventories

<b>USINV</b>	Not determined
<b>DSL/NDSL</b>	Not determined
<b>EINECS/ ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>China</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply
<b>TSCA</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 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

### 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 and Title 40n of the Code of Federal Regulations, Part 372:

Chemical name	SARA 313 - Threshold Values
Bifenthrin technical - 82657-04-3	1.0

#### **SARA 311/312 Hazardous**

##### Categorization

<b>Acute health hazard</b>	yes
<b>Chronic health hazard</b>	yes
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### CERCLA

**SARA Product RQ** 0

**RCRA  
Pesticide Information**

**State Regulations**

**State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bifenithrin technical		X		X	

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 70506-305

**16. Other Information**

**NFPA**                      **HEALTH 2**                      **flammability 1**                      **Instability 0**                      **Physical hazard -**

Preparation Date                      22-Apr-2015

Revision date                      23-Apr-2015

Revision Summary  
Update to GHS format

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**End of MSDS**