



# Safety Data Sheet

Report Date 25-Mar-16

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## 1. Identification

**Product Name** : RUCKUS LFR  
**Synonyms** : None  
**Product Use** : Pyrethroid Pesticide  
**Manufacturer/Supplier** : Helena Chemical Company  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : May cause sensitization by skin contact.  
**Eye Irritation** : May cause slight irritation.  
**Acute Toxicity Oral** : Toxic if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.  
**Acute Toxicity Dermal** : May be harmful in contact with skin.

**Hazard Categories** : Oral/Dermal/Inhalation Tox-3/5/4; Eye/Skin Irritation-2B/3; Carcinogenicity-2; STOT-SE-1; STOT-RE-1

**Hazard Statement** : Toxic if swallowed  
May be harmful in contact with skin  
Causes eye irritation  
Causes mild skin irritation  
Harmful if inhaled  
Suspected of causing cancer  
Causes damage to organs (central nervous system)  
Causes damage to organs (central nervous system) through prolonged or repeated exposure

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Bifenthrin	82657-04-3	17.15
Other ingredients		82.85



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### 4. First Aid Measures

- Eye** : 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 eyes. Call a poison control center or doctor for further treatment advice.
- Skin** : 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.
- Inhalation** : Move person to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
- Ingestion** : 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 if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : 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.

### 5. Fire Fighting Measures

- Extinguishing Media** : Use foam, carbon dioxide or dry chemical. Soft stream or water fog only if necessary.
- Specific Hazards Arising from the Chemical** : None currently known.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective gear.

### 6. Accidental Release Measures

- Personal Precautions** : Isolate and post spill area. Wear suitable personal protective equipment.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Wear a filtering mask for dust, splash, mist or spray exposures. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds and sewer drains.
- Methods and Materials for Containment and Cleanup** : Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.
- Conditions for Safe Storage** : Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Store in original container only.



## 8. Exposure Controls / Personal Protection

**TLV/PEL** : Not established

**Appropriate Engineering Controls** : Use supply of air suitable for breathing if working in confined spaces.

**Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Wear a filtering mask for dust, splash, mist or spray exposures. Eyewash and emergency shower should be available in work area.

## 9. Physical and Chemical Properties

**Odor/Appearance** : White to off-white, viscous liquid; latex odor.

**Flash Point, °F** : Not applicable

**Boiling Point, °F** : No information available

**Melting Point(Freezing point), °C** : Not applicable

**Vapor Pressure, mm Hg @ 20 °C** : No information available

**Vapor Density** : No information available

**Solubility in Water** : No information available

**Molecular Formula** : Not applicable, formulated mixture.

**Density, g/mL @ 25 °C** : 1.042 to 1.062

**Evaporation Rate(Butyl Acetate = 1)** : No information available

**Octanol/Water Partition Coefficient** : No information available

**pH** : 6.1

**Flammable Limits (approximate volume % in air)** : No information available.

**Auto-ignition Temperature** : No information available.

**Decomposition temperature** : No information available

## 10. Stability and Reactivity

**Reactivity** : Not reactive.

**Chemical Stability** : Stable

**Hazardous Decomposition Products** : Carbon oxides, hydrogen chloride, hydrogen fluoride, sulfur oxides.

**Hazardous Polymerization** : Will not occur

**Conditions to Avoid** : Avoid heat, sparks and flames.

**Incompatible Materials** : None known

## 11. Toxicological Information



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- Acute Toxicity (Oral LD50)** : 175 mg/kg (rat). Toxic if swallowed.
- Acute Toxicity (Dermal LD50)** : >5,000 mg/kg (rabbit). May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : >2.28 mg/L/4 hour (rat). Harmful if inhaled.
- Likely Routes of Exposure** : Ingestion, skin, eyes, inhalation.
- Skin Irritation** : Causes mild skin irritation. Slightly irritating (rabbit).
- Eye Irritation** : Causes eye irritation. Minimally irritating (rabbit).
- Skin Sensitization** : Non-sensitizing
- Carcinogenic** : Suspected of causing cancer. Bifenthrin: liver adenocarcinomas, benign bladder tumors (male mice).
- Chronic Effects** : Specific Target Organ Toxicity (STOT)-Single Exposure: causes damage to organs (central nervous system). STOT-Repeated Exposure: Causes damage to organs through prolonged or repeated exposure (central nervous system).
- Other Hazards** : CA Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

### 12. Ecological Information

- Ecotoxicity** : Bifenthrin: 96 hr LC50 (fish)=0.1 mcg/L; 72 hour EC50 (Algae)=0.822 mg/L; 48 hour EC50 (Crustacea)=0.11 mcg/L.
- Persistence and Degradability** : Bifenthrin: Moderately persistent. Does not readily hydrolyze. Not readily biodegradable.
- Bioaccumulative Potential** : Bifenthrin: Has some potential to bioaccumulate in the environment.
- Mobility in Soil** : Bifenthrin: Immobile; not expected to reach groundwater.
- Other Adverse Effects** : None noted

### 13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

- UN Proper Shipping Name** : Pyrethroid Pesticide, Liquid, Toxic, (Bifenthrin)
- Transport Hazard Class** : Toxic (6)
- UN Identification Number** : UN3352
- Packaging Group** : PG III
- Environmental Hazards** : ERG # 151; Not a marine pollutant per Appendix B to 49 CFR 172.101. Marine Pollutant per IATA/IMDG.
- Transport in Bulk** : No information found
- Special Precautions for Transportation** : If shipped by air (IATA) or water (IMDG), ship as: UN3352, Pyrethroid Pesticide, Liquid, Toxic, (Bifenthrin), 6.1, PG III, Marine Pollutant
- Freight Classification** : Insecticide, n.o.i., Poison



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### 15. Regulatory Information

**National Fire Protection Association Rating :**

Health: 2 Fire: 1 Reactivity: 0  
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No) :**

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: Y  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

**FIFRA Information :** This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling 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:

**EPA Registration Number :** 279-3302-5905

**FIFRA Signal Word :** Warning

**FIFRA Label Statement :** Restricted Use Pesticide - Toxic to fish and aquatic organisms.

**FIFRA Label Statement :** Keep out of reach of children.

**FIFRA Label Statement :** May be fatal if swallowed.

**FIFRA Label Statement :** Causes moderate eye irritation.

**FIFRA Label Statement :** Avoid contact with eyes or clothing.

**FIFRA Label Statement :** Wash thoroughly with soap and water after handling and before eating,

**FIFRA Label Statement :** drinking, chewing gum or using tobacco.

### 16. Other Information

**Data of Preparation/Revision :** 25-March-2016