# **SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

COMPANY ADDRESS: EMERGENCY TELEPHONE NUMBERS:

RedEagle International LLC (800) 424-9300 (CHEMTREC, transportation and spills)

5143 S. Lakeland Drive - Suite 4 (800) 222-1222 American Association of Poison Control Centers

Lakeland, FL 33813

**PRODUCT NAME:** BIFENTHRIN 2E

CHEMICAL NAME: (2 methyl[1,1 -biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-

trifluoro-1-propenyl)-2,2-dimethyl-cyclopropanecarboxylate

PRODUCT USE: Insecticide/Miticide
PRODUCT CODE: EPA Reg. No. 85678-67

#### **SECTION 2 - HAZARDS IDENTIFICATION SUMMARY**

This chemical is considered hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200

Physical hazardsFlammable liquidCategory 4Health hazardsAcute toxicity, OralCategory 3

Acute toxicity, inhalation

Category 4

Sensitization, skin

Category 1 B

Category 1 B

Category 1 B

Category 2

Specific target organ toxicity, repeated Category 1(nervous system)

exposure

Aspiration hazard Category 1

#### Label elements



Signal word DANGER

### **Hazard Statements:**

Toxic if swallowed Harmful if inhaled

May cause an allergic skin reaction

May cause cancer.

May cause an allergic skin reaction.

May be harmful if swallowed and enters airways.

Causes damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

## **SECTION 3 – COMPOSITION, INFORMATION OF INGREDIENTS**

COMPONENT	PERCENTAGE	CAS No.
Bifenthrin:( 2 methyl [1,1 -biphenyl]-3- yl)methyl 3-(2-chloro-3,3,3- trifluoro- 1-propenyl)-2,2-dimethyl- cyclopropanecarboxylate	25.1	82657-04-03
Aromatic hydrocarbon solvent	62.57	64742-95-6
Other inert ingredients	12.33	n/a

## **SECTION 4 - FIRST AID MEASURES**

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 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.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED: SPEED IS ESSENTIAL.** Immediate medical attention required. If available give an absorbent such as activated charcoal, bentonite, or Fuller's Earth. Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by poison control center or doctor. Have a person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air, if person is not breathing, call 911 or an ambulance, then give artificial respiration. Do not use mouth-to-mouth method. Use pocket mask with one-way valve or anotherproper respiratory medical device. Call a poison control center or doctor for further treatment advice.

**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 should be avoided. This product contains a petroleum distillate. Vomiting may cause aspiration pneumonia.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

### **SECTION 5 - FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or water spray when fighting firesinvolving this material.

**FIRE AND EXPLOSION HAZARD** Evacuate area. When heated, vapors dangerous to health may be formed.

**FIRE FIGHTING INSTRUCTIONS:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Evacuate area and fight fire from a safe distance. Dike and collect water used to fight fire to prevent environmental damage due to run off. This material is toxic to aquatic life with long lasting effects.

**FIRE FIGHTING EQUIPMENT:** Full firefighting turn-out gear (Bunker gear) including self-contained breathing apparatus with full face piece.

HAZARDOUS COMBUSTION PRODUCTS: Product will emit toxic fumes when heated.

# **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**IN CASE OF SPILLS OR LEAKS:** Stop the source of the spill if safe to do so. Contain the spill to prevent further contamination of soil, surface water, or ground water. Clean up spills immediately. Observe precautions in Section 8 of this document. Keep unnecessary and unprotected personnel from entering. **SMALL SPILL:** Absorb small spills with sand, vermiculite, or other absorbent inert ingredients. Place material in a container for proper disposal.

**LARGE SPILL:** Dike spill using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse or disposal. Allow absorbed material to solidify and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash

liquid with additional absorbent for disposal. Minimize use of water to prevent environmental contamination.

**CAUTION:** Minimize use of water to prevent runoff into municipal sewers or other open bodies of water and minimize environmental contamination. Be sure to isolate any contaminated water. Contact your State Pesticide or Environmental Control Agency, or nearest EPA Regional Office for guidance on disposal.

### **SECTION 7 - HANDLING AND STORAGE**

### **KEEP OUT OF REACH OF CHILDREN!**

**HANDLING:** Use only in a well-ventilated area. Do not inhale mists or vapors. Wear proper safety equipment specified in Section 8 when mixing, loading or otherwise handling concentrate. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing if pesticide gets inside clothing. Then wash thoroughly and put on clean clothing. Remove PPE after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Persons with a history of skin sensitization should not be used in any process involving this material. Do not reuse container.

**STORAGE:** Keep pesticide in original container. Keep container tightly closed when not in use. Store in a locked storage area. Avoid cross contamination with other pesticides or fertilizers during handling and storage. Store in a cool, dry place. Do not contaminate water, feed, or food by storage and disposal. Do not store diluted spray.

### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMITS**: None established.

**ENGINEERING CONTROLS:** Do not breathe vapors or mists. If specific use conditions create an environment for excessive exposure, use proper ventilation. Facilities storing or utilizing this material should be equipped with activated charcoal, an eyewash facility, and a safety shower.

PERSONAL PROTECTIVE EQUIPMENT:

EYE PROTECTION: Protective eyewear. An emergency eyewash or water supply should be readily

accessible to work area.

SKIN PROTECTION: Wear coveralls over long-sleeved shirt and long pants, chemical resistant shoes

plus socks, and chemical-resistant gloves made of any waterproof material. Wear a chemical resistant apron when cleaning equipment, mixing, or loading. For overhead exposure wear chemical-resistant headgear. An emergency

shower or water supply should be readily accessible to work area.

RESPIRATOR: Normally not required. If vapors or mists may exceed acceptable levels, wear

NIOSH approved air-purifying respirator approved for pesticides. If there is a potential for an uncontrolled release, exposure levels are not known, or any other

circumstances where air-purifying respirators may not provide adequate

protection, use positive-pressure, air-supplied respirator.

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

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

# **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Appearance: Amber to dark liquid

Odor: Solvent odor

pH: 4.8 – 5.5 [Conc. (1%) Boiling Point: No data available Freezing Point: No data available Flash Point: No data available Evaporation Rate: No data available

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Flammability: No information available

Flammability Limits: No data available Vapor Pressure: No data available Vapor Density: No data available Density: No data available Solubility: No data available **Partition Coefficient:** No data available **Auto-Ignition Temperature:** Not applicable **Decomposition Temperature:** No data available Viscosity: No data available

Specific Gravity: 0.97 **Bulk Density:** 8.1 lb/gal

### **SECTION 10 - STABILITY AND REACTIVITY**

CHEMICAL STABILITY: Stable under normal handling and storage conditions. HAZARDOUS REACTION/POLYMERIZATION: Under normal storage conditions and use, hazardous

reactions will not occur.

**CONDITIONS TO AVOID:** Extreme temperatures.

**INCOMPATIBLE MATERIALS:** Avoid strong oxidizers, strong acids, strong bases, heat,

and sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, carbon, sulfur, and hydrogen

chloride.

### **SECTION 11 - TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY:** 

Oral LD<sub>50</sub> (rat): 262 mg/kg Dermal LD<sub>50</sub> (rabbit): >2,000 mg/kg

Inhalation LC<sub>50</sub> (rat): 1,86mg/L,4hr aerosol

Eye irritation (rabbit): Direct contact with eyes may cause temporary irritation

Skin irritation (rabbit): May cause skin irritation

Sensitization: May cause allergic skin reaction

**Carcinogenicity** Not expected to be carcinogenic based on GHS classification criteria.

IARC Monographs. Overall Evaluation of Carcinogenicity

Naphthalene (CAS 91-20-3) 2B Possibly carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens** 

Naphthalene (CAS 91-20-3) Reasonably Anticipated to be a Human Carcinogen

### **SECTION 12 - ECOLOGICAL INFORMATION**

**ECOTOXICITY:** Very toxic to aquatic life with long lasting effects. Do not apply to areas where surface water is present, or to intertidal areas below the mean high-water mark. Do not apply where runoff might occur. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.

**MOBILITY IN SOIL:** No data available on the degradability of the product. **ENVIRONMENTAL HAZARDS:** Toxic to aquatic life with long lasting effects.

**AQUATIC TOXICITY:** 

Water flea EC<sub>50</sub>, 2.7-5.1mg/l ,48 hrs

Fish  $LC_{50}$ , -8.8 mg/L, 96 hrs

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food or feed by storage or disposal.

### **PESTICIDE DISPOSAL:**

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

### **CONTAINER HANDLING:**

Containers 5 gallons or less: Nonrefillable container. Do not reuse or refill container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full of water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

Containers larger than 5 gallons: Nonrefillable container. Do not reuse or refill container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment. Fill the container ¼ full of water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Once cleaned, offer for recycling or reconditioning if appropriate. If recycling is not available, puncture or dispose of in a sanitary-landfill or incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### **SECTION 14 - TRANSPORT INFORMATION**

DOT:

UN/ID no UN3352

**Proper shipping name** Pyrethroid pesticide, liquid, toxic

Hazard Class 6.1
Packing Group

Special Provisions IB3, T7, TP2, TP28

**Description** UN3352, Pyrethroid pesticide, liquid, toxic mixture, 6.1, III

Emergency Response Guide 151

Number

**IATA** 

UN/ID no UN3352

Proper shipping name Pyrethroid pesticide, liquid, toxic

Hazard Class 6.1
Packing Group

Special Provisions A3, A4

**Description** UN3352, Pyrethroid pesticide, liquid, toxic mixture, 6.1, III

**ERG Code** 6L

**IATA** 

UN/ID no UN3352

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Proper shipping name Pyrethroid pesticide, liquid, toxic

Hazard Class 6.

Packing Group

Special Provisions 61,223,274

**Description** UN3352, Pyrethroid pesticide, liquid, toxic (Bifenthrin), 6.1, III,

MARINE POLLUTANT

**EmS** F-A, S-A

## **SECTION 15 - REGULATORY INFORMATION**

EPA/FIFRA: RESTRICTED USE PESTICIDE

**CERCLA REPORTABLE QUANTITY:** Not listed

**SARA** 

302/304: Not applicable

**311/312:** Acute health; Chronic health

**313:** Bifenthrin CAS # 825657-04-3 25.1% W/W **TSCA:** Exempted - solely for FIFRA regulated use

CALIFORNIA PROP 65: WARNING: This product does not contain substances known to the State of

California to cause cancer and/or reproductive/developmental

effects.

### **SECTION 16 - OTHER INFORMATION**

### NFPA (National Fire Protection Association) HAZARD RATINGS

HEALTH	FLAMMABILITY	REACTIVITY
2	1	0

4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal

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This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFYTHE 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. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPAapproved label.