



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 21-Apr-2015

Revision date 23-Aug-2017

Revision Number: 3

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

### Product identifier

**Product Description:** Bifenture EC Insecticide/ Bifenture EC-CA Insecticide

### Other means of identification

**Item#:** 12U-135  
**UN-No** UN3351  
**Registration number(s)** 70506-57

### 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 3
Acute toxicity - Inhalation (Gases)	Category 4
Germ cell mutagenicity	Category 1B
Carcinogenicity	Category 1B
Aspiration toxicity	Category 1
FLAMMABLE LIQUIDS	Category 3

### Label elements

#### EMERGENCY OVERVIEW

#### **DANGER**

#### **Hazard Statements**

Toxic in contact with skin  
Harmful if inhaled  
May cause genetic defects  
May cause cancer  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



**Appearance** clear Yellow

**Physical state** Liquid

**Odor** aromatic Hydrocarbon

**Precautionary Statements - Prevention**

Do not handle until all safety precautions have been read and understood  
Do not handle until all safety precautions have been read and understood  
Wear cold insulating gloves/face shield/eye protection  
Do not get in eyes, on skin, or on clothing  
Use only outdoors or in a well-ventilated area

**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  
Remove/Take off immediately all contaminated clothing  
Wash contaminated clothing before reuse  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**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
Aromatic 100	64742-95-6	>35	
Bifenthrin technical	82657-04-3	25.1	

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**

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin contact**

Take off contaminated clothing. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a poison control center or doctor for treatment advice. Seek immediate medical attention/advice. Wash off immediately with

plenty of water for at least 15 minutes. Remove and wash contaminated clothing before re-use.

**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 poison control center or doctor for further treatment advice.

**Ingestion** Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.

**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 is a pyrethroid and contains petroleum distillates. Treatment is symptomatic and supportive. Do not induce vomiting. Vomiting may cause aspiration pneumonia. Digestible fats, oils, or alcohol may increase absorption and should be avoided.

**5. Fire-fighting measures**

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** No information available.

**Specific hazards arising from the chemical**

No information available.

**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** Avoid contact with skin and eyes. Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.

**Environmental Precautions**

**Environmental precautions** Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil. 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. Ground and bond containers when transferring material. Remove all ignition sources.

**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** Store at temperatures above 40 F ( 5 C). If crystals form, warm to room temperature 70 F(21 C) by room heating only for 24-48 hours, and shake occasionally until crystals dissolve and product appears uniform. Do not use external source of heat for warming containers. Keep containers tightly closed in a cool, well-ventilated place.

**incompatible materials** No information available.

**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.

**Skin protection**

Wear protective gloves/clothing. Coveralls. Chemical resistant gloves. Socks and footwear.

**Respiratory protection**

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

**General hygiene considerations**

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

**9. Physical and Chemical Properties**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	aromatic Hydrocarbon
<b>Appearance color</b>	clear Yellow No information available		
<b>Property</b>	<b>VALUES</b>	<b>Remarks/ • Method</b>	
<b>pH</b>	No information available		
<b>Melting point/freezing point</b>	No information available		
<b>Boiling Point/Range</b>	No information available		
<b>Flash Point</b>	54 C / 129 F		
<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		

Vapor Density	No information available
Specific gravity	No information available
Water solubility	No information available
Solubility in Other Solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Dynamic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

**OTHER INFORMATION**

Softening point	No information available
molecular weight	No information available
VOC Content	No information available
density	No information available
Bulk density	No information available

**10. Stability and Reactivity**

**Reactivity**

no data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**incompatible materials**

No information available.

**Hazardous decomposition products**

No information available.

**11. Toxicological Information**

**Information on Likely Routes of Exposure**

**Product information**

Bifenture EC:  
Acute oral LD50 = 262 mg/kg  
Acute dermal LD50 = >2000 mg/kg  
Acute inhalation LC50 1.86 mg/L  
Skin sensitization = Causes skin sensitization in susceptible individuals

**Inhalation** Inhalation of aromatic hydrocarbon may result in dizziness, vision disturbances.

**Eye contact** May cause slight irritation.

**Skin contact** May cause sensitization of susceptible persons. Skin exposure may result in rashes, numbing, burning or tingling sensation which is reversible and usually subsides within 12 hours.

**Ingestion** Vomiting after ingestion may cause aspiration of the aromatic hydrocarbon into the lungs

which may result in fatal pulmonary edema.

**Information on Toxicological Effects**

**Symptoms** No information available.

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

**Sensitization** No information available.  
**Mutagenic effects** No information available.  
**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 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.  
**Reproductive effects** Not Available.  
**STOT - Single Exposure** No information available.  
**STOT - Repeated Exposure** No information available.  
**Aspiration hazard** No information available.

**Numerical Measures of Toxicity - Product information**

**LD50 Oral** 262 mg/kg (rat)  
**LD50 Dermal** > 2000 mg/kg (rat)  
**LC50 Inhalation** 1.86 mg/l (4-hr)

**12. Ecological Information**

Yes - when shipped in bulk.

**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**

No information available.

**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

<b>UN-No</b>	UN3351
<b>Proper shipping name</b>	Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin) (aromatic hydrocarbon)
<b>Hazard class</b>	6.1
<b>Subsidiary class</b>	3
<b>Packing group</b>	PG III
<b>Marine Pollutant</b>	Yes - when shipped in bulk.

### ICAO

<b>UN-No</b>	UN3351
<b>Proper shipping name</b>	Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin) (aromatic hydrocarbon)
<b>Hazard class</b>	6.1
<b>Subsidiary class</b>	3
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

### IATA

<b>UN-No</b>	UN3351
<b>Proper shipping name</b>	Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin) (aromatic hydrocarbon)
<b>Hazard class</b>	6.1
<b>Subsidiary class</b>	3
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

### IMDG/IMO

<b>UN-No</b>	UN3351
<b>Proper shipping name</b>	Pyrethroid pesticide, liquid, toxic, flammable (Bifenthrin) (aromatic hydrocarbon)
<b>Hazard class</b>	6.1
<b>Subsidiary class</b>	3
<b>Packing group</b>	PG III
<b>EmS No.</b>	F-E,S-D
<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** WARNING

**Ventilation Control** PESTICIDE APPLICATORS & WORKERS THESE WORKERS MUST REFER TO PRODUCT LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA WORKER PROTECTION STANDARD 40 CFR PART 170. Keep Out of Reach of Children

**May be fatal if swallowed. This product is highly toxic to bees. Toxic to fish and aquatic organisms. Causes substantial**

but temporary eye injury.

**International Inventories**

USINV	Not present
DSL/NDSL	Not present
EINECS/ ELINCS	Not Present
ENCS	Not Present
China	Not Present
KECL	Not Present
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

**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:

**SARA 311/312 Hazardous**

**Categorization**

Acute health hazard	yes
Chronic health hazard	NO
Fire hazard	yes
Sudden release of pressure hazard	No
Reactive Hazard	No

**CERCLA**

Not applicable

**CERCLA**

SARA Product RQ 0

**RCRA**

**Pesticide Information**

**State Regulations**

Not applicable

**State Right-to-Know**

Not applicable

**International regulations**

**U.S. EPA Label information**

EPA Pesticide registration number 70506-57

**16. Other Information**



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

**Preparation Date**                      21-Apr-2015  
**Revision date**                      23-Aug-2017

**Revision Summary**

Update Section 9

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**End of MSDS**