



# Safety Data Sheet

United Phosphorus, Inc.

Preparation Date 21-Apr-2015

Revision date 14-May-2015

Revision Number: 1

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

### Product identifier

**Product Description:** Bifenture 10 DF Insecticide/Miticide

### Other means of identification

**Item#:** 12U-133R  
**UN-No** UN3077  
**Synonyms** Not Available  
**Registration number(s)** 70506-227

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

**Recommended use** Restricted Use Pesticide.  
**Uses advised against** Activities contrary to label recommendation

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

#### Supplier Address

UPI  
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 - Oral	Category 4
Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Vapors)	Category 3

### Label elements

#### **EMERGENCY OVERVIEW**

**DANGER**

#### **hazard statements**

HARMFUL IF SWALLOWED  
Harmful in contact with skin  
Toxic if inhaled



**appearance** Off-white white**Physical state** powder**Odor** odorless**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Do not get in eyes, on skin, or on clothing  
 Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

Specific treatment (see .? on this label)  
 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 INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician  
 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
 Rinse mouth

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
 Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

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

- Causes mild skin irritation
- 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
Silica gel	112926-00-8	2.5	
Lactose	112926-00-8	30	
Kaolin	1332-58-7	43.8	
Morwet D-425	68425-94-5	3	
Bifenithrin technical	82657-04-3	10	

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.

**Skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

**Inhalation**

If breathing is irregular or stopped, administer artificial respiration. 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** No information available.

**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 the skin and the eyes. Avoid dust formation. Remove all sources of ignition. Use personal protective equipment.

**Environmental Precautions**

**Environmental precautions** 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. Local authorities should be advised if significant spillages cannot be contained.

**Methods and material for containment and cleaning up**

**Methods for Clean-Up** Sweep up and shovel into suitable containers for disposal. Take precautionary measures against static discharges. Shovel or sweep up.

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

**Handling** Avoid contact with skin and eyes. Avoid dust formation. Do not eat, drink or smoke when using this product. Keep in a well-ventilated place. Remove all sources of ignition. Wash thoroughly after handling.

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

**Storage** Keep away from heat and sources of ignition. Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

**incompatible materials** No materials to be especially mentioned.

## 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.

Chemical name	ACGIH TLV	OSHA PEL
Silica gel		(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup> TWA
Lactose		(vacated) TWA: 6 mg/m <sup>3</sup> TWA: 20 mppcf : (80)/(%) SiO <sub>2</sub> mg/m <sup>3</sup> TWA
Kaolin	TWA: 2 mg/m <sup>3</sup> particulate matter containing no asbestos and <1% crystalline silica, respirable fraction	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction

### 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

Long sleeved clothing. Long pants. waterproof 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. Avoid contact with skin, eyes and clothing. Wash hands and face 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

Physical state	powder	Odor	odorless
appearance	Off-white white		
color	No information available		

Property	VALUES	Remarks/ • Method
pH	7.67	
Melting point/freezing point	8.67 °C / 48 °F	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation Rate	No information available	
flammability (solid, gas)	No information available	
Flammability limit in air		
Upper Flammability Limit	No information available	
Lower Flammability Limit	No information available	
vapor pressure	No information available	
Vapor Density	No information available	
Specific gravity	0.4226 g/ml	
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**

Not known. Heat, flames and sparks.

**incompatible materials**

No materials to be especially mentioned.

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

## 11. Toxicological Information

**Information on Likely Routes of Exposure**

<b>Product information</b>	Bifenthrin 10 DF: Acute oral LD50 (rat) = 550 mg/kg Acute dermal LD50 (rat/rabbit) = >2,000 mg/kg Acute inhalation LC50 (rat) = >5.869 mg/L Dermal sensitization = Not a sensitizer
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	Contact with eyes may cause irritation.
<b>Skin contact</b>	Prolonged contact may cause redness and irritation. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	MAY BE HARMFUL IF SWALLOWED.
<b>Component Information</b>	Bifenthrin products may produce skin sensations such as rashes, numbing, burning, or tingling, which are reversible and usually subside in 12 hours.

**Information on Toxicological Effects**

<b>Symptoms</b>	No information available.
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**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	The information below indicates whether any agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Silica gel 112926-00-8	-	Group 3		-
Lactose 112926-00-8	-	Group 3		-

**Reproductive effects** Not Available.  
**STOT - Single Exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Target organ effects** Respiratory System.  
**Aspiration hazard** No information available.

#### Numerical Measures of Toxicity - Product information

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

**LD50 Oral** 550 mg/kg (rat)  
**LD50 Dermal** > 2,000 mg/kg (rat)  
**LC50 Inhalation:** > 5.869 ml/m<sup>3</sup> (Vapor)

## 12. Ecological Information

### 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)

89.5% of the mixture consists of components(s) of unknown hazards to the aquatic environment

### 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**

Non refillable container. Do not reuse this container. Refer to product label.

## 14. Transport Information

### DOT

**UN-No** UN3077  
**Proper shipping name** Environmentally hazardous substances, solid, n.o.s (Bifenthrin)  
**Hazard class** 9  
**Packing group** PG III

**ICAO**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s (Bifenthrin)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

**IATA**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s (Bifenthrin)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>Description</b>	Marine Pollutant

**IMDG/IMO**

<b>UN-No</b>	UN3077
<b>Proper shipping name</b>	Environmentally hazardous substances, solid, n.o.s (Bifenthrin)
<b>Hazard class</b>	9
<b>Packing group</b>	PG III
<b>EmS No.</b>	F-A,S-F
<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. Toxic to fish and aquatic organisms. Harmful if absorbed through the skin.**

**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>	Does not comply
<b>KECL</b>	Does not comply
<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 Title 40n of the Code of Federal Regulations, Part

372:

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

**SARA 311/312 Hazardous****Categorization**

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

**CERCLA****SARA Product RQ** 0**RCRA****Pesticide Information**

Component	FIFRA - Restricted Use	FIFRA - Pesticide Product Other Ingredients	FIFRA - Listing of Pesticide Chemicals	California Pesticides - Restricted Materials
Silica gel 112926-00-8 ( 2.5 )			X	
Lactose 112926-00-8 ( 30 )			X	
Kaolin 1332-58-7 ( 43.8 )			X	
Bifenithrin technical 82657-04-3 ( 10 )			X	

**State Regulations****State Right-to-Know**

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Silica gel	X	X	X		
Lactose	X	X	X		
Kaolin	X	X	X		
Bifenithrin technical		X		X	

**International regulations****U.S. EPA Label information****EPA Pesticide registration number** 70506-227**16. Other Information****NFPA****HEALTH** 2**flammability** 0**Instability** 0**Physical hazard** -**Preparation Date**

21-Apr-2015

**Revision date**

14-May-2015

**Revision Summary**

Update to GHS format

**End of MSDS**