# SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 - Product Identifiers

Catalog Name: P-445N Description: Bifenthrin CAS No.: 82657-04-3

### 1.2 - Relevant Identified Uses of the Substance or Mixture

Laboratory Chemical Reference Material

### 1.3 - Supplier Details

Company: AccuStandard, Inc.

125 Market St.

New Haven, CT 06513 USA

Telephone Number: 203-786-5290

Fax: 203-786-5287

Email: edocs@accustandard.com

1.4 - Emergency Telephone Number

Emergency Phone #: AccuStandard, Inc.

1-203-502-7070 (USA)

+001-203-502-7070 (International)

24 hours / 7 days a week

## **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 - GHS Label Elements







## **Hazard Codes:**

H301 - Toxic if swallowed. (Acute toxicity, oral, category 3)

H332 - Harmful if inhaled. (Acute toxicity, inhalation, category 4)

H335 - May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

H401 - Toxic to fish and other water organisms. (H410)

H413 - May cause long-term adverse effects in the aquatic environment.

### **Precautionary Codes:**

P202 - This product should only by used by persons trained in the safe handling of hazardous chemicals.

P233 - Store in a tightly closed container. (P404)

P235 - Store in a cool dry place.

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SDS Date: 11/19/2018 Page 1 of 6

#### **SECTION 2 - HAZARDS IDENTIFICATION** - continued

#### 2.1 - GHS Label Elements - continued

P262 - Do not get in eyes, on skin or clothing.

P264 - Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available.

P284 - Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

P331 - Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs.

P338 - Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.

P360 - Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

#### 2.2 - Other Hazards

## 2.2.1 - Symptom of Exposure Health/Environment

May cause hypersensitivity to stimulation, sensation of prickling, tingling or creeping on skin.

May cause muscle fatigue and weakness.

Suspected endocrine toxicant: May cause diseases such as hypothyroidism, diabetes mellitus, hypoglycemia, reproductive disorders, and cancer.

Bioaccumulation of this chemical may occur. It is strongly advised that this substance does not enter the environment.

Toxic to fish and other water organisms. (H410)

May cause long-term adverse effects in the aquatic environment. (H413)

#### 2.2.2 - Potential Health Effects

May be irritating to eyes.

May be irritating to skin.

May be harmful if absorbed through the skin. (Acute toxicity, dermal, category 5)

May be irritating to mucous membrane and upper respiratory system. (Specific target organ toxicity, single exposure; Respiratory tract irritation, category 3)

Harmful if inhaled. (Acute toxicity, inhalation, category 4)

Toxic if swallowed. (Acute toxicity, oral, category 3)

#### 2.2.3 - Routes of Entry

Inhalation, ingestion or skin contact.

# 2.2.4 - Carcinogenicity

This product is or contains a component that is not listed (ACGIH, IARC, NTP, OSHA) as a cancer causing agent.

### **SECTION 3 - COMPOSITION / ANALYTES DATA**

Description: Bifenthrin

Synonyms: 2-Methyl-3-phenylbenzyl

(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate

Molecular Weight: 422.87

SDS Date: 11/19/2018 Page 2 of 6

# SECTION 3 - COMPOSITION / ANALYTES DATA - continued

Molecular Formula: C23H22CIF3O2

Index#: 613-022-00-6

			ACGIH -TLV (mg/m³)			OSHA -PEL (mg/m³)		
Analyte	CAS#	% Concentration	TWA	STEL	Skin	TWA	STEL	Skin
Bifenthrin	82657-04-3	100.000						

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

#### 4.1 - First Aid Procedures - General

Get medical assistance for all cases of overexposure.

#### 4.2 - Eve Contact

Eye contact: Immediately flush with plenty of water. After initial flushing, remove and contact lenses and continue flushing for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. (P338)

### 4.3 - Skin Contact

Skin contact: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse. (P360)

#### 4.4 - Inhalation

Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

# 4.5 - Ingestion

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. Give victim a glass of water a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs. (P331)

# **SECTION 5 - FIRE FIGHTING MEASURES**

#### 5.1 - Flammable Properties

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## 5.2 - Extinguishing Media

Use alcohol foam, carbon dioxide, or dry chemical when fighting fires involving this material.

### 5.3 - Protection of Firefighters

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

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

### 6.1 - Spill Response

Wear a self-contained breathing apparatus and appropriate Personal protection. Prevent contact with skin or eyes. Ventilate area. Avoid raising dust. Take up and containerize for proper disposal. Flush spill area with water. Comply with Federal, State, and local regulations.

# **SECTION 7 - HANDLING AND STORAGE**

Store in a tightly closed container. (P404)

Store in a cool dry place. (P235)

Avoid inhalation.

SDS Date: 11/19/2018 Page 3 of 6

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

Use with adequate ventilation.

Do not get in eyes, on skin or clothing. (P262)

Avoid prolonged or repeated exposure.

This product should only by used by persons trained in the safe handling of hazardous chemicals. (P202)

## **SECTION 8 - EXPOSURE CONTROLS**

### 8.1 - Engineering Controls/PPE

Wash thoroughly after handling. Do not take internally. Eye wash and safety equipment should be readily available. (P264)

## 8.2 - General Hygene Considerations

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see TLV/PEL), or a risk assessment shows air-purifying respirators are appropriate, use of a NIOSH/MSHA approved air supplied respirator is advised. Use a full-face respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges in absence of proper environmental control. Always use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Engineering and/or administrative controls should be implemented to reduce exposure.

Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Compatible chemical-resistant protective gloves must be worn to prevent skin contact. Inspect gloves prior to use. Use proper glove removal technique to avoid contact with product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash hands thoroughly and dry.

Use eye protection tested and approved under the appropriate government standards such as NIOSH (US) or EN 166 (EU).

All recommendations are advisory only and must be evaluated by an industrial hygienist and/or safety officer familiar with the specific situation of anticipated use, such as concentration and amount of the substance in the workplace. Any recommendation should not be construed as offering an approval for any specific use of the product.

### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline solid

Odor: N/A

Odor Threshold: N/A

pH: N/A

Melting Point: 58 - 60 °C

Boiling Point: N/A

Flash Point: 304 °F (151 °C) (cc)

Evaporation Rate (Butyl Acetate=1): N/A

Flammability Class: N/A

Lower Flammability Level: N/A
Upper Flammability Level: N/A
Vapor Pressure: 0.024 mPa (25°C)

Vapor Density (Air = 1): N/A
Specific Gravity: 1.26 g/cm3
Solubility in Water: 0.001 mg/L
Partition Coefficient: log Pow: 6.6
Autoignition Temperature: N/A

SDS Date: 11/19/2018 Page 4 of 6

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

Decomposition Temperature: N/A

Viscosity: N/A
VOC Content: N/A
Percent Volatile: N/A

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

Stability: Stable

Materials to Avoid: Oxidizers

Hazardous Decomposition: Oxides of carbon; Hydrogen fluoride; Hydrogen chloride

Hazardous Polymerization: Will not occur Condition to Avoid: Excessive heat

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

#### **Human Health Toxicity**

See section 2 for specific toxicological information for the ingredients of this product.

LD50 (Oral): Rat - 54.5 mg/kg LD50 (Dermal): Rat - >2000 mg/kg LC50 (Inhalation): Rat - 1.01 mg/L

No other information related to the toxicological properties of this product is available at this time.

# **SECTION 12 - ECOLOGICAL INFORMATION**

### **Environmental Toxicity**

By complying with sections 6 and 7 there should be no release to the environment.

LC50 (Fish): 0.0003 mg/L 96H

EC50 (Aquatic Invertebrate): 0.0001 mg/L 48H

BCF: 1704 - Threshold for concern High potential to bioaccumulate

No other information related to the ecological properties of this product is available at this time.

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

Recycle or incinerate at any EPA approved facility or dispose in compliance with Federal, State and local regulations. Empty containers must be triple-rinsed prior to disposal.

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

Transportation Information (DOT/IATA)

UN Number: UN2811

Class: 6.1

Packing Group: III

Proper Shipping Name: Toxic solid, organic, n.o.s. (Bifenthrin)

Poison by Inhalation: No Marine Pollutant: No

SDS Date: 11/19/2018 Page 5 of 6

### **SECTION 15 - REGULATORY INFORMATION**

This product is subject to SARA section 313 reporting requirements.

The CAS number of this product is NOT listed on the TSCA Inventory.

For laboratory, research and development use only. Not for manufacturing or commercial purposes.

In addition to federal and state regulations, local regulations may apply. Check with your local regulatory authorities.

## **SECTION 16 - OTHER INFORMATION**

This document has been designed to meet the requirements of OSHA, ANSI, GHS and CHIPs regulations. Chemicals are classified using the Globally Harmonized System for Classification and Labeling of Chemicals and CLP Regulation (EC) No. 1272/2008.

The statements contained herein are offered for informational purposes only and are based on technical data that we believe to be accurate. The manufacturer will not assume any liability for the accuracy and completeness of this information. Final determination of the suitability of the material is the responsibility of the user. Although certain hazards are described herein, the user should not presume that these are the only hazards that exist. Since conditions and manner of use are outside of the manufacturers control, we make

NO WARRANTY OF MERCHANTABILITY, EXPRESSED OR IMPLIED, AND ASSUME NO LIABILITY RESULTING FROM ITS USE.

Legend: N/A = Not Available ND = Not Determined NR = Not Regulated

Alteration of any information contained herein without written permission from the manufacturer is strictly prohibited.

## **HMIS/NFPA HAZARD INDEX**

- 0 Minimal
- 1 Slight
- 2 Moderate
- 3 Serious
- 4 Severe
- \* Additional Hazard

## **GHS HAZARD INDEX**

Category 1 - Most Severe Category 5 - Least Severe

\*\*\*\* End of Document \*\*\*\*

SDS Date: 11/19/2018 Page 6 of 6