Issued: 12 01 2016

#### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Identification of the substance or mixture

Product Name FARMWORKS® INDOOR/OUTDOOR INSECT CONCENTRATE

**EPA Reg. No.** 70506-24-84009 **Chemical Name** Bifenthrin technical

Glycerin

Use of the Substance/Mixture

Recommended Use Insecticide

Company/Undertaking Identification

**Distributed by** Ragan & Massey, Inc.

101 Ponchatoula Parkway Ponchatoula, Louisiana 70454

**United States** 

**Emergency and contact telephone numbers** 

Emergency telephone 1 (800) 434-9300 CHEMTREC® (24 hrs)

number 1 (703) 527-3887

1 (800) 222-1222 Poison Control Center

**Product Information** 

Contact telephone 1 (800) 264-5281

number 1 (985) 386-6042

# 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 4

#### **Label Elements**

### **Emergency Overview**

# **WARNING**

### **HAZARD STATEMENTS**

HARMFUL IF SWALLOWED HARMFUL IN CONTACT WITH SKIN

HARMFUL IF INHALED

Appearance Off-white Physical State Liquid Odor Slight

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

SAFETY DATA SHEET Issued: 12 01 2016

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 and in well ventilated areas

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 position comfortable to breathing

Call a POISON CENTER or doctor if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

**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
Bifenthrin technical	82657-04-3	7.9	

# 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** Rinse skin immediately with plenty of water for 15-20 minutes. Remove and

wash contaminted clothing before re-use. Call a poison control center or doctor

for treatment advice.

**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. If breathing

is irregular or stopped, administer artificial respiration. Call a physician or

poison

control center immediately.

**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 Sympyoms and Effects, Both Acute and Delayed

Most important symptoms No information available

Issued: 12 01 2016

and effects

### Indication of Any Immediate Medical Attention and Special Treatment Needed

**Notes to physician** This product contains a pyrethroid. Treatment is symptomatic and supportive.

### 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 dioxide (CO<sub>2</sub>). Carbon monoxide. Chlorine. Hydrogen

chloride. Hydrogen flouride.

**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. Use personal protective equipment.

Remove all sources of ignition.

**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 pertinenet

environmental permits.

### Methods and Material for Containment and Cleaning Up

**Methods for Clean-up** 

universal

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

binder, sawdust). Sweep up and shovel into suitable containers for disposal.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

**Handling** Keep out of reach of children. Keep away from heat, sparks and open flame.

No smoking.

### Conditions for Safe Storage, Including any Incompatabilities

**Storage** Keep container tightly closed in a dry and well-ventilated place. Store in an area

where cross-contamination with pesticides, fertilizers, food or feed could not

occur.

Issued: 12 01 2016

**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.

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** Where there is potential for eye contact have eye flushing equipment available.

Use eye protection to avoid eye contact.

**Skin protection** Protective gloves. Lightweight protective clothing.

**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 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	Liquid	Odor	Slight
Appearance	Off-white	Color	Not available
<b>Property</b>	<u>Values</u>	<b>Property</b>	<u>Values</u>
рН	6	Lower Flammability Limit	Not available
Melting Point / Freezing	7°C / 45°F	Vapor Pressure	Not available
Point		Vapor Density	Not available
<b>Boiling Point / Range</b>	Not available	Specific Gravity	1.039 g/ml
Flash Point	> 100°C / >212°F	Water Solubility	Dispersible in water
<b>Evaporation Rate</b>	Not available	Solubility in Other Solvents	Not available
Flammability (solid, gas)	Not available	Partition Coefficient:	Not available
Flammability limit in air		n-octanol/water	
Upper Flammability Limit	Not available	Autoignition temperature	Not available

SAFETY DATA SHEET

Issued: 12 01 2016

Decomposition temperatureNot availableExplosive PropertiesNot availableViscosity, KinematicNot availableOxidizing PropertiesNot available

**Dynamic Viscosity** Not available

**OTHER INFORMATION** 

Softening PointNot availableDensityNot availableMolecular WeightNot availableBulk Density8.66 lb/gal

VOC Content Not available

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

#### **Chemical Stability**

Stable under recommended storage conditions

### **Possibilty of Hazardous Reactions**

None under normal processing

#### **Conditions to Avoid**

Heat, flames, and sparks

# **Incompatible Materials**

No materials to be especially mentioned.

#### <u>Hazardous decomposition products</u>

Carbon monoxide, Carbon dioxide (CO<sub>2</sub>), chlorine, Hydrogen chloride, Hydrogen fluoride.

# 11. TOXICOLOGICAL INFORMATION

#### Information on Likely Routes of Exposure

Product Information FarmWorks INDOOR/OUTDOOR INSECT CONCENTRATE

Acute oral LD50 - 632 mg/kg (rat)

Acute dermal LD50 - > 2,000 mg/kg (rabbit)
Acute Inhalation LC50 - 11.58 mg/L/1 hr (rat)

InhalationHarmful by inhalation.Eye ContactMay cause irritation.

**Skin Contact** May be harmful if absorbed through the skin. Skin exposure may result in

rashes, numbing, burning, or tingling, which are reversible and usually subsides

within 12 hours.

Ingestion HARMFUL IF SWALLOWED.

**Component Information** 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

Symptoms No information available

Issued: 12 01 2016

### Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure

SensitizationNo information availableMutagenic effectsNo 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. Bifenthrin technical- In studies with laboratory animals, bifenthrin did not cause reproductive toxicity or teratogenicity. Tremors were associated with repeated exposure of laboratory animals with Bifenthrin. 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.

Reproductive Effects
No information available
STOT - Single Exposure
No information available
STOT - Repeated Exposure
No information available
No information available
Numerical Measures of Toxicity - Product Information

**LD50 Oral** 632 mg/kg (rat) **LD50 Dermal** > 2000 mg/kg (rat)

**LC50 Inhalation** Inhalation LC50 11.58 mg/l (1 hr)

# 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).

### Persistence / Degradability

No information available.

#### **Bioaccumulation / Accumulation**

No information available.

#### **Other Adverse Effects**

No information available.

SAFETY DATA SHEET Issued: 12 01 2016

#### 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

DOTNot regulatedICAONot regulatedIATANot regulatedIMDG / IMONot regulated

### 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 safet data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

Signal Word CAUTION

Ventilation Control PESTICIDE APPLICATORS & WORKERS MUST REFER TO PRODUCT

LABELING AND DIRECTIONS FOR USE IN ACCORDANCE WITH EPA

WORKER PROTECTION STANDARD 40 CFR PART 170.

Harmful if swallowed. Harmful if inhaled or absorbed through skin. Toxic to fish and aquatic inverebrates.

**International Inventory** 

**USINV** Not determined DSL/NDSL Not determined **EINECS/ELINCS** Does not comply **ENCS** Does not comply **IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply **AICS** Does not comply **TSCA** 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

SAFETY DATA SHEET Issued: 12 01 2016

**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	CAS-No	Weight %	SARA 313 - Threshold Values
Bifenthrin technical	82657-04-3	7.9	1.0

### SARA 311 / 312 Hazardous Categorization

Acute Health Hazard Yes
Chronic Health Hazard No
Fire Hazard No
Sudden Release of No
Pressure Hazard No
Reactive Hazard No

**CERCLA** 

SARA Product RQ

**RCRA** 

**Pesticide Information** 

**State Regulations** 

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bifenthrin technical		Х		Х	

### **International Regulations**

**U.S. EPA Label Information** 

**EPA Registration Number** 70506-24-84009

### 16. OTHER INFORMATION

NFPA HEALTH 1 FLAMMABILITY 1 ISTABILITY 0 PHYSICAL HAZARD -

Ragan and Massey, Inc. believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with other materials or in any process. Further, since the conditions and methods of use are beyond the control of Ragan and Massey, Inc. Ragan and Massey, Inc. expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

SAFETY DATA SHEET Issued: 12 01 2016

Trademarks and/or other products of Ragan and Massey, Inc. referenced herein are either trademarks or registered trademarks of Ragan and Massey, Inc. or its affiliates, unless otherwise indicated.

**Preparation Date** 

15-November-2016