



Safety Data Sheet

Preparation Date 31-Jul-2018

Revision date 31-Dec-2018

Revision Number: 3

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

Product identifier

Product Description: Argyle OD Insecticide

Other means of identification

Product code 12U-346
UN/ID no. UN3352
Registration number(s) 70506-346

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

UPL NA 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 - Oral

Category 3

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Toxic if swallowed
Toxic to aquatic life



Appearance Opaque viscous

Physical state Liquid

Odor Strong characteristic

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Rinse mouth

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

- May be harmful in contact with skin
- Toxic to aquatic life

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Bifenthrin	82657-04-3	18.59
Acetamiprid	135410-20-7	11.88

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 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. 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 Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects no data 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 data available.

Specific hazards arising from the chemical

No information available.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂). 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. 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.

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

Wear protective gloves/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. 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	Liquid	Odor	Strong characteristic
Appearance	Opaque viscous		
color	Off-white		

<u>Property</u>	<u>VALUES</u>	<u>Remarks/ • Method</u>
pH	5.4	(1% aq)
Melting point/freezing point	no data available	
Boiling Point/Range	No information available	
Flash Point	> 100 °C	
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	1.033 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 data 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
Liquid 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 productsCarbon dioxide (CO₂). Carbon monoxide. Hydrogen chloride. Hydrogen fluoride.**11. Toxicological Information****Information on Likely Routes of Exposure****Product information**

Argyle
 Acute oral LD50 = 98.11 mg/kg
 Acute dermal LD50 = >5000 mg/kg
 Acute inhalation LC50 = >2.07 mg/L - single exposure 14 day (No deaths)

Inhalation

Harmful by inhalation.

Eye contact

May cause slight irritation.

Skin contact

May cause sensitization of susceptible persons. Moderately irritating to the skin.

Ingestion

MAY BE FATAL 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.

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

No information available.

Mutagenic effects

no data available.

Carcinogenicity

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

Not Available.

STOT - Single Exposure

no data available.

STOT - Repeated Exposure

no data available.

Aspiration hazard

No information available.

Numerical Measures of Toxicity - No information available

mg/kg mg/l

LD50 Oral

98.11 mg/kg

LD50 Dermal

> 5000 mg/kg

12. Ecological Information

Marine Pollutant.

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) Acetamidrid:

Acute toxicity fish:

Carp LC50 = >100 mg/L 96 hr

Rainbow trout LC50 = >100 mg/L 96hr
 Acute toxicity Daphnia magna:
 Daphnia magna EC50 = 49.8 mg/L 48 hr
 Acute toxicity Algae:
 ErC50 = >98.3 mg/L 72 hr
 Bee
 ACute toxicity oral LD50 = 8.85 ugai/bee (20% acetamiprid)

Persistence/Degradability
 no data available.

Bioaccumulation/ Accumulation
 No information available.

Other Adverse Effects
 no data 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 When shipped in bulk or internationally the marine pollutant marking must also be added to the package.
UN/ID no. UN3352
Proper shipping name Pyrethroid pesticide, liquid, toxic (Bifenthrin)
Hazard class 6.1
Packing group PG III
IMDG - Marine Pollutant Marine Pollutant.

IATA
UN/ID no. UN3352
Proper shipping name Pyrethroid pesticide, liquid, toxic (Bifenthrin)
Hazard class 6.1
Packing group PG III
Description IMDG - Marine Pollutant

IMDG
UN/ID no. UN3352
Proper shipping name Pyrethroid pesticide, liquid, toxic (Bifenthrin)
Hazard class 6.1
Packing group PG III
Environmental hazards Yes

16. Other Information

NFPA **HEALTH 3** **flammability 0** **Instability 0** **Physical hazard -**

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Revision Summary

Update logo Update section 1 Update Section 16***

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