



Safety Data Sheet

Preparation Date 31-Jul-2018

Revision date 06-Aug-2024

Revision Number: 5

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

Identification of the product

Product Description Argyle OD Insecticide

Other means of identification

Internal SDS 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.
PO Box 12219
Research Triangle Park, NC 27709-12219

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 and Drug Safety (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
Acute toxicity - Inhalation (Dusts/Mists)	Category 4

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard Statements

Toxic if swallowed
Harmful if inhaled



Appearance Opaque viscous	Physical state Liquid	Odor Strong characteristic
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Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

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.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician	No information available.
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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**9.1 Information on basic physical and chemical properties**

Appearance	Opaque viscous	
Physical state	Liquid	
Odor	Strong characteristic	
color	Off-white	
<u>Property</u>	<u>VALUES</u>	<u>Remarks/ Method</u>
pH	5.4	(1% aq)
Melting point/freezing point		None known
Boiling Point/Range		None known
Flash Point	> 100 °C	None known
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity	1.033 g/ml	None known
Bulk density		None known
Water solubility		None known
Solubility in Other Solvents	<0.1 ppb	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known
Decomposition temperature		None known
Viscosity		None known

9.2 OTHER INFORMATION- NONE**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 (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. Based on available data, the classification criteria are not met.

Ingestion

MAY BE FATAL IF SWALLOWED.

Components 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 - Product information

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

Bioaccumulative potential.

Chemical name	Log Pow
Acetamiprid 135410-20-7	0.8 (25°C)

Other Adverse Effects

no data available

13. Disposal Considerations**Waste Treatment Methods****Waste Disposal Method**

Pesticide wastes can be 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

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

Restricted Use Pesticide. May be fatal if swallowed. Causes moderate eye irritation. Toxic to birds. Toxic to fish and aquatic organisms.

International Inventories

USINV	Not present
DSL/NDSL	Not present
EINECS/	Not Present
ELINCS	
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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA

Not applicable

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
Bifenthrin 82657-04-3 (18.59)			X	
Acetamiprid 135410-20-7 (11.88)			X	

State Regulations

State Right-to-Know

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Bifenthrin - 82657-04-3		X			

International regulationsU.S. EPA Label information

EPA Pesticide registration number 70506-346

16. Other Information

NFPA HEALTH 3 flammability 0 Instability 0 Physical hazard -

Preparation Date 31-Jul-2018

Revision date 06-Aug-2024

Revision Summary

Update address Update section 2 Update section 11

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End of SDS