



Safety Data Sheet

Preparation Date 11-Jan-2021

Revision date 11-Jan-2021

Revision Number: 1

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

Identification of the product

Product Description StartUP Bifen Seed Treatment

Other means of identification

Product code 12-383
UN/ID no UN3082
Registration number(s) 70506-383

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 Chemtec: (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 - Dermal | Category 4 |
| Skin sensitization | Category 1 |

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

Harmful in contact with skin
May cause an allergic skin reaction



| | | |
|--------------------------|------------------------------|---------------------------------|
| Appearance Opaque | Physical state Liquid | Odor Mild Characteristic |
|--------------------------|------------------------------|---------------------------------|

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection
Do not get in eyes, on skin, or on clothing
Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF exposed
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 skin irritation or rash occurs: Get medical advice/attention

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-% |
|----------------------|------------|----------|
| Bifenthrin technical | 82657-04-3 | 17.15 |

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 30 minutes. Remove contact lenses, if present, after the first 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. 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. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. |
| Protection of First-aiders | Use personal protective equipment. |

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 This product contains a pyrethroid. Treatment is symptomatic and supportive.

5. Fire-fighting measures

Suitable extinguishing mediaCarbon dioxide (CO₂). Aquatic. Foam.**Unsuitable extinguishing media** no data available.**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and vapours.

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** Provide adequate ventilation. Avoid contact with skin and eyes. Wear protective gloves/protective clothing and eye/face protection.**Environmental Precautions****Environmental precautions** Prevent further leakage or spillage if safe to do so. 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.**Methods and material for containment and cleaning up****Methods for Clean-Up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal 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 from freezing. Wear personal protective equipment. Keep away from heat, sparks and open flame. - No smoking. Remove and wash contaminated clothing before re-use.**Conditions for safe storage, including any incompatibilities****Storage** Keep in a dry place. Keep containers tightly closed in a cool, well-ventilated place.**incompatible materials** Strong oxidizing agents.**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**

Use eye protection to avoid eye contact. Where there is potential for eye contact have eye flushing equipment available. Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles.

Skin protection

Wear protective gloves/clothing. Coveralls. Chemical resistant gloves. Socks and footwear.

Respiratory protection Effective dust mask.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Opaque
Physical state Liquid
Odor Mild Characteristic
color Tan

| <u>Property</u> | <u>VALUES</u> | <u>Remarks/ Method</u> |
|-------------------------------------|---------------|--|
| pH | 7.46 | None known |
| Melting point/freezing point | | None known |
| Boiling Point/Range | | None known |
| Flash Point | > 93 °C | None known |
| Flammability (solid, gas) | | None known |
| None known | | Specific gravity 1.043 g/mL |
| None known | | Solubility in Other Solvents No information available |
| None known | | Partition coefficient: n-octanol/water |
| None known | | Autoignition temperature |
| None known | | Decomposition temperature |
| None known | | Viscosity |

9.2 OTHER INFORMATION

10. Stability and Reactivity

Reactivity
 no data available

Chemical stability
 Stable under normal conditions.

Possibility of hazardous reactions
 None under normal processing.

Hazardous polymerization Hazardous polymerisation does not occur.

Conditions to avoid
 Extremes of temperature and direct sunlight.

incompatible materials
 Strong oxidizing agents.

Hazardous decomposition products
 Carbon oxides.

11. Toxicological Information

Information on Likely Routes of Exposure

| | |
|----------------------------|--|
| Product information | StartUP Bifen Seed Treatment Acute oral LD50 = 550 mg/kg Acute dermal LD50 = >5,000 mg/kg Acute inhalation LC50 = > 5.06 mg/L |
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | May cause slight irritation. |
| Skin contact | Skin exposure may result in rashes, numbing, burning or tingling sensation which is reversible and usually subsides within 12 hours. |
| Ingestion | MAY BE HARMFUL IF SWALLOWED. |

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 | 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. |
| 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

| | |
|------------------------|--------------------|
| LD50 Oral | 550 mg/kg (rat) |
| LD50 Dermal | > 5000 mg/kg (rat) |
| LC50 Inhalation | > 5.06 mg/l (rat) |

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)

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Bioaccumulative potential.

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 Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR 171.4

UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s (Bifenthrin)
Hazard class 9
Packing group PG III
IMDG - Marine Pollutant Marine Pollutant.

TDG When shipped in Canada domestic highway non-bulk this product can be shipped as Not regulated as per TDG 1.45.1

UN/ID no UN3082
Proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Bifenthrin)
Hazard class 9
Packing group PG III
Marine Pollutant: Y or N [List Ingredient(s) with %] Marine pollutant.

IATA

UN/ID no UN3082
Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Bifenthrin)
Hazard class 9
Packing group PG III
Description IMDG - Marine Pollutant

IMDG

UN/ID no UN3082
Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Bifenthrin)
Hazard class 9
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 CAUTION

Restricted Use Pesticide. Harmful if absorbed through the skin. Harmful if swallowed. Toxic to fish and aquatic organisms.

International Inventories

| | |
|-------------------|-------------|
| USINV | Not present |
| DSL/NDSL | Not present |
| EINECS/ ELINCS | Not Present |
| 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
 IECS - 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 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 technical 82657-04-3 (17.15) | | | X | |

State Regulations

State Right-to-Know

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

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-383

16. Other Information

NFPA **HEALTH 2** **flammability 1** **Instability 0** **Physical hazard -**

Preparation Date 11-Jan-2021

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Revision Summary

Add to system

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