



Safety Data Sheet

Preparation Date 22-Sep-2021

Revision date 22-Sep-2021

Revision Number: 2

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

Identification of the product

Product Description Dimilin 2L Insecticide

Other means of identification

Internal SDS code 12A-0041A

Registration number(s) 70506-525

Recommended use of the chemical and restrictions on use

Recommended use Insect growth regulator.
Uses advised against Activities contrary to label recommendation
Non labeled activities

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)

| | |
|--|-------------|
| Serious eye damage/eye irritation | Category 2B |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

CAUSES EYE IRRITATION

Causes damage to organs through prolonged or repeated exposure



| | | |
|-------------------------|------------------------------|--------------------|
| Appearance clear | Physical state Liquid | Odor Slight |
|-------------------------|------------------------------|--------------------|

Precautionary Statements - Prevention

Do not handle until all safety precautions have been read and understood
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash hands thoroughly after handling
 Contaminated work clothing should not be allowed out of the workplace
 Avoid release to the environment
 Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention
 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

• Very toxic to aquatic life

3. Composition/information on Ingredients

| Chemical name | CAS No | Weight-% |
|-----------------------|------------|----------|
| Diflubenzuron | 35367-38-5 | 22 |
| 2,6-Difluorobenzamide | 18063-03-1 | 0.1-2 |

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 | Wash skin with soap and water. Seek medical attention if skin irritation, swelling or redness develops and persists. Remove and wash contaminated clothing before re-use. |
| 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. |
| Ingestion | Call a physician or poison control center immediately. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. |

Most Important Symptoms and Effects, Both Acute and Delayed

| | |
|--|--|
| Most Important Symptoms and Effects | Causes moderate eye irritation. May cause damage to organs through prolonged or repeated exposure. |
|--|--|

Indication of Any Immediate Medical Attention and Special Treatment Needed

| | |
|---------------------------|------------------------|
| Notes to physician | Treat symptomatically. |
|---------------------------|------------------------|

5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide (CO₂), Dry powder, Foam, Water fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Water spray.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Explosion data

Protective equipment and precautions for firefighters

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 Use personal protective equipment. Avoid contact with skin and eyes. Provide adequate ventilation. Wash thoroughly after handling.

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. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with an absorbant such as clay, sand or soil. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

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 Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry and well-ventilated place.

incompatible materials Strong bases, Strong acids, 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. Provide appropriate exhaust ventilation at places where dust is formed. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/Face Protection

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

Skin protection
Respiratory protection

glasses with side-shields. If splashes are likely to occur, wear: Face-shield. Long sleeved clothing. Chemical resistant gloves. Chemical resistant footwear plus socks. 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. In the case of dust or aerosol formation use respirator with an approved filter.

General hygiene considerations

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

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|----------------|------------------|
| Appearance | clear |
| Physical state | Liquid |
| Odor | Slight |
| color | Off-white to Tan |

| <u>Property</u> | <u>VALUES</u> | <u>Remarks/ Method</u> |
|--|--------------------------|------------------------|
| pH | 9 | None known |
| Melting point/freezing point | | None known |
| Boiling Point/Range | 100 °C | None known |
| Flash Point | > 93 °C | None known |
| Flammability (solid, gas) | | None known |
| Specific gravity | 1.071 - 1.111@25 C | None known |
| Water solubility | Dispersible | 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 | | None known |

9.2 OTHER INFORMATION

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

Hazardous polymerisation does not occur.

Conditions to avoid

Protect from direct sunlight. Heat, flames and sparks.

incompatible materials

Strong bases, Strong acids, Strong oxidizing agents.

Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. Toxicological Information

Information on Likely Routes of Exposure

| | |
|----------------------------|--|
| Product information | Dimilin 2L Acute oral LD50 >5000 mg/kg Acute dermal LD50 >5000 mg/kg Acute inhalation LC50 >20 mg/L/4hr |
| Inhalation | Harmful by inhalation. Inhalation of dust in high concentration may cause irritation of respiratory system. |
| Eye contact | CAUSES EYE IRRITATION. |
| Skin contact | May cause irritation. |
| 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 | Not a skin sensitizer. |
| Mutagenic effects | no data available. |
| Carcinogenicity | There are no known carcinogenic chemicals in this product. |
| 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 - See above

LD50 Dermal > 5,000 mg/kg

12. Ecological Information

ecotoxicity

Very toxic to aquatic life with long lasting effects
 Diflubenzuron
 FISH LC 50 (Cyprinodon sp) = > 0.13 mg/L 96 hr
 LC50 (Oncorhynchus mykiss) = > 0.2 mg/L 96 hr
 DAPHNIA EC 50 = 0.003 mg/L 48 hr
 AQUATIC ORGANISM EC50 = 0.00064 mg/L 96 hr

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

Not 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 domestically by highway in non-bulk containers this product can be shipped as not regulated.
When shipped in bulk, by vessel, or internationally use the IMDG shipping description:

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

IATA

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

IMDG

| | |
|------------------------------|---|
| UN/ID no | UN3082 |
| Proper shipping name | Environmentally hazardous substances, liquid, n.o.s (Diflubenzuron) |
| Hazard class | 9 |
| Packing group | PG III |
| Environmental hazards | Marine pollutant |

| |
|-----------------------------------|
| 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

Hazard to humans and domestic animals. Toxic to terrestrial juvenile insects and aquatic invertebrates, mollusks insects.

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
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

RCRA

Pesticide Information

| Component | FIFRA - Restricted Use | FIFRA - Pesticide Product Other Ingredients | FIFRA - Listing of Pesticide Chemicals | California Pesticides - Restricted Materials |
|------------------------------------|------------------------|---|--|--|
| Diflubenzuron 35367-38-5 (22) | | | X | |

State Regulations

State Right-to-Know

| Chemical name | Massachusetts | New Jersey | Pennsylvania | Illinois | Rhode Island |
|----------------------------|---------------|------------|--------------|----------|--------------|
| Diflubenzuron - 35367-38-5 | X | X | | | |

International regulations

U.S. EPA Label information

EPA Pesticide registration number 70506-525

16. Other Information

NFPA HEALTH 1 flammability 2 Instability 0 Physical hazard -

Preparation Date 22-Sep-2021

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Revision Summary

Add to system

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End of SDS

