



# Safety Data Sheet

Preparation Date 22-Sep-2021

Revision date 26-Jun-2024

Revision Number: 3

## 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.

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)

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**

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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**

<b>Most Important Symptoms and Effects</b>	Causes moderate eye irritation. May cause damage to organs through prolonged or repeated exposure.
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**Indication of Any Immediate Medical Attention and Special Treatment Needed**

<b>Notes to physician</b>	Treat symptomatically.
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**5. Fire-fighting measures**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), 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****Skin protection****Respiratory protection**

Where there is potential for eye contact have eye flushing equipment available. Safety 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
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity	1.071 - 1.111 @25 C	None known
Bulk density		None known
Water solubility		
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- NONE

## 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**

<b>Product information</b>	Dimilin 2L Acute oral LD50 >5000 mg/kg Acute dermal LD50 >5000 mg/kg Acute inhalation LC50 >20 mg/L/4hr
<b>Inhalation</b>	Harmful by inhalation. Inhalation of dust in high concentration may cause irritation of respiratory system.
<b>Eye contact</b>	CAUSES EYE IRRITATION.
<b>Skin contact</b>	May cause irritation.
<b>Ingestion</b>	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**

<b>Sensitization</b>	Not a skin sensitizer.
<b>Mutagenic effects</b>	no data available.
<b>Carcinogenicity</b>	There are no known carcinogenic chemicals in this product.
<b>Reproductive effects</b>	Not Available.
<b>STOT - Single Exposure</b>	no data available.
<b>STOT - Repeated Exposure</b>	no data available.
<b>Aspiration hazard</b>	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 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 domestically by highway in non-bulk containers this product can be shipped as not regulated.

When shipped in bulk, by vessel, or internationally refer to 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, by vessel or internationally - use IMDG description

**IATA** Single or inner packagings less than 5L (liquid) or 5kg net (solids) are excepted from the Dangerous Goods regulations (IATA Special provision A197)

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

**IMDG** Single or inner packaging less than 5L (liquid) or 5 kg net (solids) are excepted from the Dangerous Goods regulations (IMDG 2.10.2.7)

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

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Revision Summary

Update section 14

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**End of SDS**