



# MATERIAL SAFETY DATA SHEET

## *DIMILIN® 2L*

**Version:** 1.3  
**Date of Issue:** 06/25/2007  
**Date printed:** 06/26/2007

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### 1. PRODUCT AND COMPANY IDENTIFICATION

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**Product name :** DIMILIN® 2L

**Chemical name:** Diflubenzuron (Active)

**Use of substance/preparation:** Insecticide

**Supplier:** Chemtura Corporation  
199 Benson Road  
Middlebury, CT 06749 USA

**Emergency telephone number:** CHEMTREC (24 hours) 800-424-9300  
Chemtura Corporation Emergency Response (24 hours) 800-292-5898

**Environmental, Health and Safety Department:** 866-430-2775

**Prepared by** Product Safety Department      Date of Issue: 06/25/2007  
(US) +1 866-430-2775  
(EU) +44 (0) 1753.603.000  
Email: MSDSRequest@chemtura.com

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### 2. HAZARDS IDENTIFICATION

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#### EMERGENCY OVERVIEW

#### CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.

EXCESSIVE OVEREXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:

- METHEMOGLOBINEMIA

NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

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INGREDIENT	% BY WEIGHT
Diflubenzuron CAS# 35367-38-5	22
Surfactant CAS# Trade secret	< 2
Non-Hazardous Inert Ingredients CAS# -	< 78

Ingredients not precisely identified are non-hazardous and/or proprietary.



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**4. FIRST AID MEASURES**

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**Swallowing**

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

**Inhalation**

Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Skin contact**

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Eye contact**

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

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**5. FIRE-FIGHTING MEASURES**

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**Flash point:** 199 °F 93 °C  
**Flammable limits:**  
**Lower limit:** Not available  
**Upper limit:** Not available

**Autoignition temperature:** Not available

**Hazardous combustion products**

Irritating fumes.  
Oxides of carbon.

**Special fire fighting procedures**

Do not discharge extinguishing waters into streams, rivers and lakes.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear.  
Self-contained breathing apparatus.

**Extinguishing media**

**Suitable:** Large fires:  
- alcohol-type foam or universal-type foams  
Small fires:  
- CO2  
- dry chemical  
- water spray

**Unsuitable:** - water jets

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**6. ACCIDENTAL RELEASE MEASURES**

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**Personal precautions**

Wear suitable protective equipment.

**Environmental precautions**

Prevent from entering sewer system, surface water or soil., May be harmful to aquatic life.



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**Methods for cleaning up**  
 Observe government regulations.

**Small spills:** Absorb on inert material such as sand, earth, vermiculite.  
 Collect for disposal.

**Large spills** Dike to contain spill.  
 Pump excess material into suitable container (metal drums, metal tank, or such).

### 7. HANDLING AND STORAGE

#### **HANDLING**

##### **Handling precautions**

Avoid contact with eyes, skin and clothing., Use with adequate ventilation.

##### **Other precautions**

NOTE TO END-USERS: The employee protection recommendations on this MSDS may differ from those on the product label. For normal use of this product, always refer to the personal protective equipment requirements on the product label.

#### **STORAGE**

##### **Storage requirements**

Store in a cool, dry place.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **EXPOSURE LIMIT VALUES**

<u>Component</u>	<u>Country</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Surfactant		Ceiling (skin), OSHA	150 mg/m <sup>3</sup> 50 ppm 50 ppm	
		Ceiling (skin), ACGIH	50 ppm 50 ppm	
<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>	
Mineral Oil Mist	TWA (mist), ACGIH	5.0 mg/m <sup>3</sup>		If used in way that generates a "mist" observe the limits for Mineral Oil Mist.
	STEL (mist), ACGIH	10.0 mg/m <sup>3</sup>		

#### **PERSONAL PROTECTION**

##### **Respiratory protection**

May be needed if product is used in a confined or poorly ventilated area., All respirators must be NIOSH approved.

##### **Hand protection / protective gloves**

Chemical resistant protective gloves

##### **Eye protection**

Safety glasses with side shields.

##### **Skin protection**

Wear protective clothing.

##### **Other protective equipment**

Eye bath, Safety shower

#### **ENGINEERING CONTROLS**

##### **Ventilation**

General (mechanical) room ventilation is expected to be satisfactory., Local ventilation is needed in the presence of airborne mists, sprays or aerosols and/or high vapor concentrations.



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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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APPEARANCE

Physical state	Liquid
Color	Off-white to Tan
Odor	Slight aromatic
Odor threshold	Not available

OTHER PROPERTIES

Boiling point	Not available
Melting point	Not available
pH	8.9
Density	1.1 g/cm <sup>3</sup>
Vapor pressure	
Solubility in water	Dispersible
Flash point	199 °F 93 °C
Autoignition temperature	Not available
Upper explosion limits	Not available
Lower explosion limits	Not available
Percent volatiles	65 %(m)
Volatile organic compounds	90 g/kg
Dynamic viscosity	No data available.

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**10. STABILITY AND REACTIVITY**

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Stability: This product is stable under normal storage and handling conditions.

Incompatible materials:

Oxidizing agents.  
Strong acids.  
Strong bases.

Hazardous combustion products:

Irritating fumes.  
Oxides of carbon.

Hazardous polymerization: Will not occur.



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### 11. TOXICOLOGICAL INFORMATION

#### SWALLOWING

Test results

Acute toxicity: LD50 Rat  
Result: > 5,000 mg/kg

#### SKIN ABSORPTION

Test results

Acute toxicity: LD50 - Rat  
Result: > 5,000 mg/kg

#### INHALATION

Test results

Acute toxicity: LC50 - Rat  
Result: > 2 mg/l  
Exposure time: 4 h

#### SKIN CONTACT

Test results

Skin irritation: Species: Rabbit  
Result: Slight

#### EYE CONTACT

Test results

Eye irritation: Species: Rabbit  
Result: Mild irritation

#### SENSITIZATION

Test results:

Species: - Guinea pigs  
Result: Negative

### 12. ECOLOGICAL INFORMATION

<u>Component ecotoxicology</u> Diflubenzuron <u>Acute toxicity fish:</u>	LC50 - Rainbow trout (Oncorhynchus mykiss) Result: > 106.4 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Acute toxicity fish:</u>	LC50 - Zebra fish (Brachydanio rerio) Result: > 64.8 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Aquatic toxicity to plants:</u>	IC50 - Selenastrum capricornutum Result: > 80 mg/l Exposure time: 72 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Acute toxicity to aquatic invertebrates:</u>	EC50 - Water flea (Daphnia magna) Result: 0.0026 mg/l Exposure time: 48 h

### 13. DISPOSAL CONSIDERATIONS

**General:** Dispose of in accordance with appropriate Federal, State, and local regulations., Avoid discharge to sewers and natural



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waters.

### 14. TRANSPORT INFORMATION

#### DOT Classification

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflubenzuron)  
 Class: 9  
 UN ID #: UN3082  
 Packing group: III  
 marine pollutant: MARINE POLLUTANT

Not regulated by ground or rail if shipped or transported in containers less than 450 liters.

#### IMDG Classification

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.  
 Class: 9  
 UN ID #: UN 3082  
 Packing group: III  
 Technical description (Diflubenzuron)

#### ICAO Classification

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s.  
 Class: 9  
 UN ID #: UN 3082  
 Packing group: III  
 Technical description (Diflubenzuron)

Only regulated by air Into, Out of or Within the United States in containers 881.8 lbs (400 kg) or greater.

### 15. REGULATORY INFORMATION

**Comprehensive Environmental Response Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (RQ's) in 40CFR302.4.**

**Components present in this product at a level which could require reporting under the statute are:**

Chemical name	CAS#	Max weight %
Diflubenzuron	35367-38-5	22.00
Surfactant	RQ 5000 pounds for butanol Trade secret	2.00

**Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in MSDS's that are copied and distributed for this material.**

**Components present in this product at a level which could require reporting under the statute are:**

Chemical name	CAS#	Max weight %
Diflubenzuron	35367-38-5	22.00
Surfactant	Trade secret	2.00

#### New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)

Chemical name	CAS#	New Jersey TS Number
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<b>Diflubenzuron</b>	35367-38-5		
<b>Surfactant</b>	Trade secret		<b>CHEM507</b>
<b>Water</b>	7732-18-5		
<b>Light petroleum hydrocarbon</b>	Trade secret		<b>CHEM506</b>
<b>Alkylene glycol</b>	Trade secret		<b>CHEM505</b>

### CHEMICAL INVENTORY

United States: This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and is therefore exempt from TSCA Inventory listing requirements.

Food additive  
 No data available.

Food contact  
 No data available.

Cosmetics  
 No data available.

Pharmaceuticals  
 No data available.

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### 16. OTHER INFORMATION

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RECOMMENDED USES AND RESTRICTIONS: NOTE TO END-USERS: This MSDS is being provided to all interested persons in accordance with federal and state right-to-know laws. Precautionary Statements, First Aid Statements and Directions for Use of this product by end-users are contained on the product label and must be followed at all times.

STP	Standard temperature and pressure
W/W	0 (HMIS)
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

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