1. PRODUCT AND COMPANY IDENTIFICATION

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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUTION!
MAY CAUSE EYE AND SKIN IRRITATION.
EXCESSIVE EXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:
- METHEMOGLOBINEMIA
NORMAL PRECAUTIONS COMMON TO SAFE MANUFACTURING PRACTICE SHOULD BE FOLLOWED IN HANDLING AND STORAGE.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>22</td>
</tr>
<tr>
<td>CAS# 35367-38-5</td>
<td></td>
</tr>
<tr>
<td>Surfactant</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>CAS# Trade secret</td>
<td></td>
</tr>
<tr>
<td>Non-Hazardous Inert Ingredients</td>
<td>&lt; 78</td>
</tr>
<tr>
<td>CAS# -</td>
<td></td>
</tr>
</tbody>
</table>

Ingredients not precisely identified are non-hazardous and/or proprietary.
4. FIRST AID MEASURES

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.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Wear suitable protective equipment.

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

<table>
<thead>
<tr>
<th>Component</th>
<th>Country</th>
<th>Type</th>
<th>Value</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfactant</td>
<td></td>
<td>Ceiling (skin), OSHA</td>
<td>150 mg/m³ 50 ppm 50 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceiling (skin), ACGIH</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>Mineral Oil Mist</td>
<td>TWA (mist), ACGIH</td>
<td>5.0 mg/m³</td>
<td></td>
<td>If used in way that generates a “mist” observe the limits for Mineral Oil Mist.</td>
</tr>
<tr>
<td></td>
<td>STEL (mist), ACGIH</td>
<td>10.0 mg/m³</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.
9. PHYSICAL AND CHEMICAL PROPERTIES

### 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/cm³
- **Vapor pressure**: No data available.
- **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.

10. STABILITY AND REACTIVITY

**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.
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

<table>
<thead>
<tr>
<th>Component ecotoxicology</th>
<th>LC50 - Rainbow trout (Oncorhynchus mykiss)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>Result: &gt; 106.4 mg/l</td>
</tr>
<tr>
<td>Acute toxicity fish:</td>
<td>Exposure time: 96 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component ecotoxicology</th>
<th>LC50 - Zebra fish (Brachydanio rerio)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>Result: &gt; 64.8 mg/l</td>
</tr>
<tr>
<td>Acute toxicity fish:</td>
<td>Exposure time: 96 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component ecotoxicology</th>
<th>IC50 - Selenastrum capricornutum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>Result: &gt; 80 mg/l</td>
</tr>
<tr>
<td>Aquatic toxicity to plants:</td>
<td>Exposure time: 72 h</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component ecotoxicology</th>
<th>EC50 - Water flea (Daphnia magna)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>Result: 0.0026 mg/l</td>
</tr>
<tr>
<td>Acute toxicity to aquatic invertebrates:</td>
<td>Exposure time: 48 h</td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

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

**DOT Classification**

**Proper shipping name:** ENVIROMENTALLY 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:

<table>
<thead>
<tr>
<th>Chemical name</th>
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<td>22.00</td>
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<td>2.00</td>
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**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.**

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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS#</th>
<th>New Jersey TS Number</th>
</tr>
</thead>
</table>
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.

16. OTHER INFORMATION

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

| WW | 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 |

The opinions expressed herein are those of qualified experts within Chemtura Corporation. We believe that the information contained herein is current as of the date of this safety data sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Chemtura Corporation, it is the user's obligation to determine the conditions of safe use of the products.