1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DIMILIN® SC

Chemical name: Diflubenzuron

Use of substance/preparation: Insect Growth Regulator

Supplier:

Emergency telephone number: CHEMTREC (24 hours) 800-424-9300
Chemtura Corporation Emergency Response (24 hours) 800-292-5898
For additional emergency telephone numbers see section 16 of the Safety Data Sheet.

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>% BY WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>40.4</td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td>7.2</td>
</tr>
<tr>
<td>Mineral oil</td>
<td>1.8</td>
</tr>
<tr>
<td>Mineral Oil Mist</td>
<td>-</td>
</tr>
</tbody>
</table>

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION!

MAY CAUSE EYE AND SKIN IRRITATION.
PROLONGED AND/OR REPEATED EXPOSURE MAY CAUSE THE FOLLOWING EFFECTS:
- METHEMOGLOBINEMIA
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

**Autoignition temperature:**
Not available

**Hazardous combustion products**
Oxides of carbon.
Oxides of nitrogen.
Hydrogen chloride.
Hydrogen fluoride.

**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:
- alcohol-type foam or universal-type foams
- CO2
- dry chemical

Unsuitable:
- water jets

6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Wear suitable protective equipment., Avoid contact with eyes and skin.

**Environmental precautions**
Prevent from entering sewer system, surface water or soil.

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

Small spills: Absorb on inert material such as sand, earth, vermiculite.
Collect for disposal.
7. HANDLING AND STORAGE

HANDLING
Handling precautions
Do not get in eyes., Avoid prolonged or repeated contact with skin., Avoid breathing vapor., Use with adequate ventilation., Wash thoroughly after handling.

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>Mineral Oil Mist</td>
<td>USA</td>
<td>TWA (mist), ACGIH</td>
<td>5 mg/m³</td>
<td>If used in way that generates a &quot;mist&quot; observe the limits for Mineral Oil Mist.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL (mist), ACGIH</td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

No other exposure limits have been established

PERSONAL PROTECTION

Respiratory protection
In case of insufficient ventilation, wear suitable respiratory equipment., The determination of appropriate respiratory protection is best performed, on a case by case basis, taking into consideration the exposure conditions of the particular operation., The respirator manufacturer should be consulted to ensure that the air-purifying cartridges utilized will provide adequate protection for the exposure conditions and period of wear concerned.

Hand protection / protective gloves
Chemical resistant protective gloves

Eye protection
Safety glasses with side shields.

Skin protection
Wear protective clothing, such as long sleeves to minimize skin contact.

Other protective equipment
Eye bath, Safety shower

ENGINEERING CONTROLS

Ventilation
General (mechanical) room ventilation is expected to be satisfactory., Special, local ventilation is needed at points where vapors can be expected to escape to the workplace air.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE
Physical state: Liquid
Color: Tan
**DIMILIN® SC**

**Odor**
Slight

**Odor threshold**
Not available

**OTHER PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>8 - 10</td>
</tr>
<tr>
<td>Density</td>
<td>1.19 g/cm³</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in organic solvents</td>
<td>No data available.</td>
</tr>
<tr>
<td>Partitioning coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>None available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>Not available</td>
</tr>
</tbody>
</table>

**10. STABILITY AND REACTIVITY**

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

**Stability - Conditions to avoid:**
None known.

**Hazardous combustion products:**
Oxides of carbon.
Oxides of nitrogen.
Hydrogen chloride.
Hydrogen fluoride.

**11. TOXICOLOGICAL INFORMATION**

**SWALLOWING**
Test results
Acute toxicity: LD50 Rat
Result: > 5,000 mg/kg

**SKIN ABSORPTION**
Test results
Acute toxicity: LD50 - Rabbit
Result: > 2,000 mg/kg

**INHALATION**
Test results
Acute toxicity: LC50 - Rat
Result: 1.9 mg/l
Exposure time: 4 h

**SKIN CONTACT**
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; 0.2 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; 0.2 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; 0.3 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: 0.0071 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 waters.

14. TRANSPORT INFORMATION

DOT Classification
This product is not regulated by DOT.

IMDG Classification
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Class: 9
UN ID #: UN 3082
Packing group: III
Marpol: MARINE POLLUTANT

ICAO Classification
This product is not regulated by ICAO.
15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS#</th>
<th>Max weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surfactant</td>
<td>Trade secret</td>
<td>3.00</td>
</tr>
<tr>
<td>Diflubenzuron</td>
<td>35367-38-5</td>
<td>46.20</td>
</tr>
<tr>
<td>Surfactant</td>
<td>Trade secret</td>
<td>3.00</td>
</tr>
</tbody>
</table>

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:

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</table>

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>
<tbody>
<tr>
<td>Diflubenzuron</td>
<td>35367-38-5</td>
<td></td>
</tr>
<tr>
<td>Dispersant</td>
<td>Trade secret</td>
<td></td>
</tr>
<tr>
<td>Alkylene glycol</td>
<td>Trade secret</td>
<td></td>
</tr>
<tr>
<td>Paraffinic Oil</td>
<td>Trade secret</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>Trade secret</td>
<td></td>
</tr>
<tr>
<td>Surfactant</td>
<td>Trade secret</td>
<td></td>
</tr>
<tr>
<td>Mineral oil</td>
<td>Trade secret</td>
<td></td>
</tr>
</tbody>
</table>

EPA Hazard Categories (SARA 311, 312): Immediate Health Hazard

California Proposition 65

**** NONE ****

EPA

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.

FURTHER INFORMATION MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED. (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.