



MATERIAL SAFETY DATA SHEET

DIMILIN® SC

Version: 1.2
Date of Issue: 11/09/2006
Date printed: 12/30/2006

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

<u>INGREDIENT</u>	<u>% BY WEIGHT</u>
Diflubenzuron CAS# 35367-38-5	40.4
Paraffinic Oil CAS# Trade secret	7.2
Mineral oil CAS# Trade secret	1.8
Mineral Oil Mist CAS# -	

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



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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:

- Large fires:**
 - alcohol-type foam or universal-type foams
- Small fires:**
 - 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.



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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

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

Component	Country	Type	Value	Remark
Mineral Oil Mist	USA	TWA (mist), ACGIH	5 mg/m3	If used in way that generates a "mist" observe the limits for Mineral Oil Mist.
		STEL (mist), ACGIH	10 mg/m3	

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



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Odor	Slight
Odor threshold	Not available
OTHER PROPERTIES	
Boiling point	Not available
Melting point	Not available
pH	8 - 10
Density	1.19 g/cm ³
Vapor pressure	
Solubility in water	Not available
Solubility in organic solvents	No data available.
Partitioning coefficient	Not available
Flash point	None available
Autoignition temperature	Not available

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



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Test results
Skin irritation: Species: Rabbit
Result: Slight

EYE CONTACT
Test results
Eye irritation: Species: Rabbit
Result: Slight

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: > 0.2 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Acute toxicity fish:</u>	LC50 - Zebra fish (Brachydanio rerio) Result: > 0.2 mg/l Exposure time: 96 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Aquatic toxicity to plants:</u>	IC50 - Selenastrum capricornutum Result: > 0.3 mg/l Exposure time: 72 h
<u>Component ecotoxicology</u> Diflubenzuron <u>Acute toxicity to aquatic invertebrates:</u>	EC50 - Water flea (Daphnia magna) Result: 0.0071 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 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.



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15. REGULATORY INFORMATION

Chemical name		CAS#	Max weight %
Surfactant	RQ 5000 pounds for butanol	Trade secret	3.00

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	46.20
Surfactant	Trade secret	3.00

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

Chemical name	CAS#	New Jersey TS Number
Diflubenzuron	35367-38-5	
Dispersant	Trade secret	
Alkylene glycol	Trade secret	
Paraffinic Oil	Trade secret	
Water	Trade secret	
Surfactant	Trade secret	
Mineral oil	Trade secret	

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.



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