

ADEPT®

Version: Date of Issue: Date printed:

06/26/2007 01/24/2009

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EPT® ubenzuron Insect Growth Regulator emtura Corporation 9 Benson Road ddlebury, CT 06749 USA	
Insect Growth Regulator emtura Corporation 9 Benson Road	
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CHEMTREC (24 hours) 800-424-9300 Chemtura Corporation Emergency Response (24 hours) 800-292-5898	
5-430-2775	
oduct Safety Department Date of Issue: 06/26/2007 S) +1 866-430-2775 0) +44 (0) 1753.603.000 mail: MSDSRequest@chemtura.com	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW CAUTION! MAY CAUSE EYE AND SKIN IRRITATION.

3. COMPOSITION / INFORMATION ON INGREDIENTS	
INGREDIENT	% BY WEIGHT
Diflubenzuron CAS# 35367-38-5	25
Dispersant CAS# Trade secret	< 5
Sodium alkyl sulfate CAS# Trade secret	< 5



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Filler CAS# Trade secret

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:	230 °F	110 °C
Autoignition temp	perature:	> 110 °C

Hazardous combustion products

Irritating fumes. Oxides of carbon. Oxides of nitrogen.

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.

- water spray

Extinguishing media

Suitable: - CO2 - dry powder - foam - water fog

Unsuitable:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear suitable protective equipment.



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Environmental precautions

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

Methods for cleaning up

Sweep up and collect in a suitable container for disposal.

7. HANDLING AND STORAGE

HANDLING

Handling precautions Avoid dust formation., Use only 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

<u>Storage requirements</u> Store in a cool, dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES

SURE LINIT VALUES				
<u>Component</u> Filler	<u>Country</u>	<u>Type</u> ACGIH - respirable dust	2 mg/m3	<u>Remark</u> 8 hours
<u>Component</u> Particulates not otherwise regulated	<u>Tvpe</u> TWA, OSHA	15.0 mg/m3	Value	<u>Remark</u> Total dust
	TWA, OSHA	5.0 mg/m3		Respirable fraction
	TWA - ACGIH	10.0 mg/m3		Total inhalable dust
	TWA - ACGIH	3.0 mg/m3		Respirable fraction

PERSONAL PROTECTION

Respiratory protection

In case of occurence of dust respiratory protective equipment required.

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.



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ENGINEERING CONTROLS

<u>Ventilation</u> Local exhaust suggested to prevent dust buildup.

9. PHYSICAL AND CHEMICAL PROPERTIES

<u>APPEARANCE</u> Physical state	Powder
Color	White to yellow
Odor	Practically odorless
OTHER PROPERTIES Boiling point	Not available
Melting point	Not available
рН	(approximately) 8 Concentration: 10 g/1
Density	2.09 g/cm3 at 25 °C
Bulk density	0.3 g/cm3
Vapor pressure	
Solubility in water	Dispersible
Flash point	>230 °F 110 °C
Thermal decomposition	NONE
Autoignition temperature	> 110 °C
Dynamic viscosity	Not applicable
Oxidizing properties	Not applicable

10. STABILITY AND REACTIVITY

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

Incompatible materials: Oxidizing agents. Strong acids. Strong bases.



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Hazardous combustion products: Irritating fumes. Oxides of carbon. Oxides of nitrogen.

Hazardous polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

SWALLOWING Test results <u>Acute toxicity:</u>

LD50 Rat Result: > 10,000 mg/kg

LD50 - Rat

LC50 - Rat Result: > 3.52 mg/l Exposure time: 4 h

Species: Rabbit Result: Mild irritation

Result: > 20,000 mg/kg

SKIN ABSORPTION Test results

Acute toxicity:

INHALATION Test results <u>Acute toxicity:</u>

SKIN CONTACT Test results <u>Skin irritation:</u>

Species: Rabbit Classification: Not irritating

EYE CONTACT Test results Eye irritation:

SENSITIZATION Test results:

Species: - Guinea pigs Result: Non sensitizing.

MUTAGENICITY

Assessment: Negative

CARCINOGENICITY

Assessment: Negative

TOXICITY TO REPRODUCTION/FERTILITY

AssessmentNegative

12. ECOLOGICAL INFORMATION

Component ecotoxicology	LC50 - Rainbow trout (Oncorhynchus mykiss)
Diflubenzuron	Result: $> 0.2 \text{ mg/l}$



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Acute toxicity fish:	Exposure time: 96 h
Component ecotoxicology	LC50 - Zebra fish (Brachydanio rerio)
Diflubenzuron	Result: > 0.2 mg/l
Acute toxicity fish:	Exposure time: 96 h
Component ecotoxicology	IC50 - Selenastrum capricornutum
Diflubenzuron	Result: > 0.3 mg/l
Aquatic toxicity to plants:	Exposure time: 72 h
<u>Component ecotoxicology</u>	EC50 - Water flea (Daphnia magna)
Diflubenzuron	Result: 0.0071 mg/1
<u>Acute toxicity to aquatic invertebrates:</u>	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

Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diflubenzuron)
Class:	9
UN ID #:	UN3077
Packing group:	III

Not regulated by ground or rail if shipped or transported in container less than 400 kg.

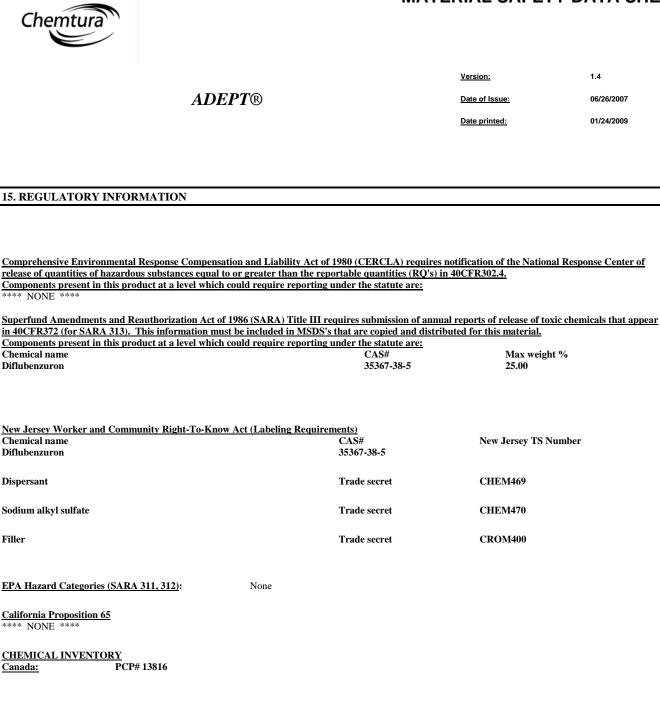
IMDG Classification

Proper shipping name: Class:	Environmentally hazardous substance, solid, n.o.s.
Subsidiary risk:	marine pollutant
UN ID #: Packing group:	UN 3077 III
Technical description	(Diflubenzuron)

ICAO Classification

Proper shipping name:	Environmentally hazardous substance, solid, n.o.s.
Class:	9
UN ID #:	UN 3077
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.



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.



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STP	Standard temperature and pressure	
W/W	Weight/Weight 0 (HMIS)	
1 (HMIS)	Slight hazard	
2 (HMIS)	Moderate hazard	
3 (HMIS)	Serious hazard	Copyright
4 (HMIS)	Severe hazard	2007 Chemtura
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions	Corporation

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