

MATERIAL SAFETY DATA SHEET

Mosquiron Controlled Release Mosquito Larvicide

FILE NO.:
MSDS DATE: 01/01/11

WHMIS: Non-Controlled

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Mosquiron 0.12CRD, 0.12P, 0.12G Controlled Release Mosquito Larvicide

SYNONYMS:

PRODUCT CODES: 2005-01

MANUFACTURER: Pestalto Environmental Products Inc.

DIVISION:

ADDRESS: 400 Elizabeth St., Unit I, Guelph, ON N1E 2Y1

EMERGENCY PHONE: 1 866 648-7773

CANUTEC PHONE: 613 996-6666

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CHEMICAL NAME: Active Ingredient: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea
Inert Ingredients: fatty acid mixture of waxes

CHEMICAL FAMILY: benzoyl urea (Rimon Technical), novaluron

CHEMICAL FORMULA: C₁₇H₉ClF₈N₂O₄

PRODUCT USE: mosquito larvicide

PREPARED BY: R. Dupree

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:	Novaluron waxes		
CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
116714-46-6	< 1%	<1%	No
N/D	>99%	>99%	No

SECTION 3: HAZARDS IDENTIFICATION

Oscar CR is formulated as a solid composition and all ingredients are essentially nontoxic by all routes of exposure.

POTENTIAL HEALTH EFFECTS

EYES: Non-irritating

SKIN: Non-irritating

INGESTION: May cause gastric distress

INHALATION: not applicable

CARCINOGENICITY

OSHA:

ACGIH:

NTP:

IARC:

OTHER:

SECTION 3 NOTES: NOT CARCINOGENIC

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Dust should not be created by use of this product. If dust is created due to rough handling wear an approved dust respirator.

EYE PROTECTION: Wear safety glasses with side-shields.

PROTECTIVE GLOVES: Wear nitrile gloves.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Wear clothing suitable to avoid skin contact.

VENTILATION: Maintain good ventilation.

EXPOSURE GUIDELINES: Not established.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

ODOR:

PHYSICAL STATE:

pH AS SUPPLIED:

pH (Other):

BOILING POINT:

F:

C:

MELTING POINT:

F:

C:

FREEZING POINT:

F:

C:

VAPOR PRESSURE (mmHg):

@

F:

C:

VAPOR DENSITY (AIR = 1):

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1):

@

F:

C:

EVAPORATION RATE:

BASIS (=1):

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (con't)

APPEARANCE: cylindrical in shape, 5-10 cm length x 1-2 cm diameter

ODOR: Characteristic odour

PHYSICAL STATE: solid

pH AS SUPPLIED: N/A

pH (Other): when applied to water source pH will not be impacted

BOILING POINT: N/D

F:

C:

MELTING POINT:

F:

C: 80-85

FREEZING POINT: N/A

F:

C:

VAPOR PRESSURE (mmHg): N/A

@

F:

C:

VAPOR DENSITY (AIR = 1): N/A

@

F:

C:

SPECIFIC GRAVITY (H₂O = 1): 1.0 – 1.5

@

F:

C: 20

EVAPORATION RATE: N/A

BASIS (=1):

SOLUBILITY IN WATER: controlled release device consists of soluble and insoluble waxes. Soluble wax accounts for 25% – 35% by weight. Solubility of soluble wax is 200 g/L.

PERCENT SOLIDS BY WEIGHT: 100%

PERCENT VOLATILE: N/A

BY WT/ BY VOL @

F:

C:

VOLATILE ORGANIC COMPOUNDS (VOC): N/A

WITH WATER: LBS/GAL

WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: N/D

VISCOSITY: N/A

SECTION 10: STABILITY AND REACTIVITY

STABLE

UNSTABLE

STABILITY: X

CONDITIONS TO AVOID (STABILITY): None Known

INCOMPATIBILITY (MATERIAL TO AVOID): Avoid contact with oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Thermal decomposition may produce oxides of carbon

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID (POLYMERIZATION): None Known

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SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	Inert Ingredients (Waxes) Acute Oral LD ₅₀ >20000 mg/kg Skin Irritation: non-irritating Eye Irritation: non-irritating	Active Ingredient (novaluron) Acute Oral LD ₅₀ - > 5000 mg/kg (rat) Acute Dermal LD ₅₀ - >2000 mg/kg (rat) Acute Inhalation LC ₅₀ - > 5.15 mg/L, 4 hours (rat) Skin Irritation – non-irritating (rabbit) Eye Irritation – mildly irritating to eyes (rabbit) Sensitization: - non sensitizer (guinea pig) Carcinogenicity: - not carcinogenic Mutagenicity: - no evidence of genotoxicity Reproduction Toxicity: - not teratogenic in animal experiments
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SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:	Inert Ingredients (waxes)	Active Ingredient (novaluron)
Ecotoxicity (Fish LC ₅₀) (Birds LD ₅₀) (Daphnia magna EC ₅₀) (Algae)	>1.0 mg/L 96 hours, rainbow trout	Persistence/degradability Half-life T _{1/2} 68-76 days, soil > 500 mg/L 48 hours, golden orfe > 2000 mg/kg 0.279 ug/L, 48 hours NOEC > 9.68 mg/L, 72 hours

SECTION 12 NOTES: this product is highly toxic to aquatic organisms such as crustaceans and aquatic insects

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: dispose according to local regulations

RCRA HAZARD CLASS:

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION	NOT REGULATED
PROPER SHIPPING NAME:	
HAZARD CLASS:	
ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENT:	

WATER TRANSPORTATION	NOT REGULATED
PROPER SHIPPING NAME:	
HAZARD CLASS:	
ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENTS:	

AIR TRANSPORTATION	NOT REGULATED
PROPER SHIPPING NAME:	
HAZARD CLASS:	
ID NUMBER:	
PACKING GROUP:	
LABEL STATEMENTS:	

OTHER AGENCIES:

SECTION 14 NOTES:

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SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA (TOXIC SUBSTANCE CONTROL ACT): NOT LISTED

INTERNATIONAL REGULATIONS: NOT CLASSIFIED BY THE EU

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information contained on this MSDS is to the best of our knowledge an accurate summary of the data available as of the date of preparation. Tumaini (CRT) Inc. is not liable for the application or use of this information in situations beyond its control or outside the normal and expected use of its product. Tumaini (CRT) Inc. assumes no responsibility for damage or injury from the use of this product described herein.