## 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 FAX PHONE: 519 837-4471

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: C17H9CIF8N2O4

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	< 1% >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:				
OTHER:				

NTP:

IARC:

SECTION 3 NOTES: NOT CARCINOGENIC

ACGIH:

## SECTION 4: FIRST AID MEASURES

EYES: Wash with plenty of water for at least 15 minutes. If irritation persists seek medical attention.

SKIN: Remove contaminated clothing and wash affected areas with soap and water. If skin irritation or redness occurs consult a physician.

INGESTION: Do Not Induce Vomiting. Get immediate medical assistance.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: There is no specific antidote. Treat symptomatically. If ingested perform gastric lavage.

#### SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR,UPPER: N/D(% BY VOLUME)LOWER: N/D

FLASH POINT: F: C: 210

METHOD USED: DIN 51758

AUTOIGNITION TEMPERATURE: N/D F: C:

EXTINGUISHING MEDIA: Use water fog. If foam is used Foam Type should be alcohol.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, positive pressure breathing apparatus and full firefighting protective clothing. Do not use full water jet, carbon dioxide or dry chemical. Fight fire from as far a distance away as possible. Use water spray to cool fire exposed containers. Do not inhale smoke or combustion gases. Do not use a solid stream of water as molten wax may be spread to ignition sources or carry fire to other flammable materials. Use water spray or foam to control fire. Collect contaminated fire-fighting water separately. Prevent fire-fighting runoff from reaching sewers or bodies of water as it will contain chemicals which are hazardous to the environment.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS: N/D

HAZARDOUS DECOMPOSITION PRODUCTS: N/D	
SECTION 6: ACCIDENTAL RELEASE MEASURES	

STEPS TO BE TAKEN IN CASE OF A SPILL: Wear prescribed protective equipment. Sweep up or shovel broken controlled release devices or contaminated product into disposal containers. Controlled release devices which have not broken can be recovered. Wear chemical resistant gloves during cleanup. If melted, allow to solidify first. Claen up spill location. Must not be released into sewers, drains or wells.

#### SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry, well ventilated area in tightly closed orginal containers at a temperature not greater than 40C away from oxidizing agents, heat, sparks, flames and all other ignition sources. Open and handle containers with care. Open sealed bags only at time of use. Insure excessive moisture is not allowed to come in contact with the controlled release devices or moisture absorption may occur resulting in softening of the device. Do not eat, drink or smoke when handling. Wash hands before breaks and after work.

## 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
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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: Х 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

## SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:	Inert Ingredients (Waxes) Acute Oral LD₅₀>20000 mg/kg Skin Irritation: non-irritating Eye Irritation: non-irritating	Active Ingredient (novaluron) Acute Oral LD <sub>50</sub> - > 5000 mg/kg (rat) Acute Dermal LD <sub>50</sub> - >2000 mg/kg (rat) Acute Inhalation LC <sub>50</sub> - > 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
SECTION 12: ECOLOGICAL INFO	RMATION	
ECOLOGICAL INFORMATION:	Inert Ingredients ( waxes)	Active Ingredient ( novaluron)

Ecotoxicity (Fish LC50) ( Birds LD50) ( Daphnia magna EC50) ( Algae) 

 Inert Ingredients ( waxes)
 Active Ingredient ( novaluron)

 >1.0 mg/L 96 hours, rainbow trout
 Persistance/degradability Half-life T<sub>1/2</sub> 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:**

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

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