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MOSQUIRON® 0.12P

GROUP 15 INSECTICIDE

Novaluron Insecticide

PELLETS

A Formulation of the Insect Growth Regulator Novaluron for Control of Mosquito Larvae
(excluding *Mansonia* spp. and *Coquilletidia* spp.)

RESTRICTED

GUARANTEE: Novaluron..... 0.12%

REGISTRATION No. 31078 PEST CONTROL PRODUCTS ACT

KEEP OUT OF REACH OF CHILDREN
READ THE LABEL BEFORE USING

CAUTION – EYE IRRITANT

USE OF THIS PRODUCT IS LIMITED TO PUBLIC HEALTH OFFICIALS, MOSQUITO
ABATEMENT OFFICIALS AND OTHER TRAINED PERSONNEL

NET CONTENTS 5-50 kg

Adama Agricultural Solutions Canada Ltd.
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Winnipeg, MB
R3B 0S1
855-264-6262

NOTICE TO USER: This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

NATURE OF RESTRICTION:

This product is to be used only in the manner authorized; consult provincial pesticide regulatory authorities regarding appropriate use permits that may be required.

GENERAL INFORMATION

Mosquiron 0.12P prevents the emergence of adult mosquitoes (excluding *Mansonia* spp. and *Coquilletidia* spp.) from standing water sites by preventing the development of their aquatic immature life-stages. Mosquiron 0.12P affects developing immature stages of mosquitoes by disrupting the molting process. Consequently, adult mosquitoes and beneficial species are not affected by Mosquiron 0.12P. For best results, read all directions and recommendations thoroughly.

DIRECTIONS FOR USE

READ ALL DIRECTIONS COMPLETELY BEFORE USE

DO NOT apply this product to permanent natural water bodies such as lakes, rivers, streams, creeks, dugouts or ponds as they may contain sensitive aquatic invertebrates.

Mosquiron 0.12P-controls mosquito larvae (excluding *Mansonia* spp. and *Coquilletidia* spp.) for up to 90 days in standing bodies of water. The period for control of mosquito larvae may be reduced in areas of high turnover or high organic matter content.

APPLICATION SITES

Temporary or permanent sites of standing water which support mosquito larval development:

Uncultivated agricultural and non-agricultural non-food areas, dredging spoil sites, drainage areas, ditches, waste water treatment facilities, dairy or poultry lagoons, other animal waste lagoons, livestock runoff lagoons, sewage effluent, retention ponds, harvested timber stacks, swales, storm water drainage areas, sewers, catch basins, tree holes, bird baths, landfills, rain barrels, flooded roof tops, abandoned swimming pools, gutters, junk yards, abandoned vehicles, water-holding receptacles (e.g., tires, urns, flower pots, cans & other containers) and other natural and manmade depressions.

Application Rates for Mosquiron 0.12P

Water Volume (Liters)	Number of Pellets (Low organic matter content)	Number of Pellets (High organic matter content)	Application rate (grams)
2.0	1	2	0.2 – 0.4
10.0	5	10	1.0 – 2.0
50.0	25	50	5.0 – 10.0
100.0	50	100	10.0 – 20.0
200.0	100	200	20.0 – 40.0

For application to shallow bodies of water up to 15 cm deep, apply 15 to 30 g Mosquiron 0.12P per square meter of surface area.

Use the higher rate in areas with high organic matter.

Timing: Mosquiron 0.12P affects larval stages of mosquitoes only, so begin treatment at the beginning of the mosquito breeding season in spring. Mosquiron 0.12P provides up to 90 days of mosquito larvae control in sites with limited turn-over of water. Re-treat every 90 days if mosquito larvae are still present. The retreatment interval may be shorter in areas of high water turnover or in areas with high organic matter. Treatments may continue until the last mosquito brood of the season as dictated by monitoring.

Application Method: Mosquiron 0.12P can be applied by hand where only a small number of pellets (i.e., 1 to 10) is needed, e.g. breeding sites that hold small quantities of water such as flower pots, bird baths, cans, and other small containers. This product can also be applied using hand operated fertilizer spreaders which would require calibration to insure that the application rate is correct. The product is also suitable for application through motorized backpack spreaders after the appropriate calibration step has been performed. **DO NOT APPLY BY AIR.**

RESISTANCE MANAGEMENT RECOMMENDATIONS:

For resistance management, please note that Mosquiron 0.12P contains a Group 15 insecticide. Any mosquito population may contain individuals naturally resistant to Mosquiron 0.12P and other Group 15 Insecticides. The resistant individuals may dominate the mosquito population if this group of insecticides are used repeatedly in the same geographic area. Other resistance mechanisms that are not linked to site of action but are specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of Mosquiron 0.12P or other Group 15 insecticides with different groups that control mosquitoes in a geographic area.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Monitor treated pest populations for resistance development.

- Contact your local extension specialist for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Adama Agricultural Solutions Canada Ltd. at 1-855-264-6262.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN

May irritate eyes. Avoid contact with skin, eyes or clothing. Wear a long sleeved-shirt, long pants and chemical resistant gloves when handling and/or applying product.

Do not use on food crops. DO NOT use treated water to irrigate food crops. DO NOT apply to water bodies where swimming is possible, including swimming pools. DO NOT use in water which may be used for immediate human or livestock drinking purposes. Avoid contamination of aquatic systems other than the target areas during the application of this product. Do not contaminate these non-target aquatic systems through direct application, disposal of waste or cleaning equipment.

FIRST AID:

IF SWALLOWED: Call a poison control centre 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 a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: 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 centre or doctor for further treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Aquatic invertebrates may be killed at application rates recommended on this label. DO NOT apply where these are important resources. DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE: Store in a cool, dry place and away from direct sunlight. Do not contaminate water, food or feed by storage or disposal.

DISPOSAL:

1. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
2. Make the empty container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

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