

Summary of product characteristics for a biocidal product

Product name: Biopren 50 LML mosquito larvicide concentrate

Product type(s): PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)

Authorisation number:

R4BP 3 asset reference number: IT-0025751-0000

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Administrative information

1.1. Trade names of the product

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1.2. Authorisation holder

Name and address of the authorisation holder	Name	FARMA-CHEM SA
	Address	SINDOS 57022 THESSALONIKI Greece
Authorisation number		
R4BP 3 asset reference number	IT-0025751-0000	
Date of the authorisation	12/12/2019	
Expiry date of the authorisation	18/11/2029	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Babolna Bio Ltd
Address of the manufacturer	Szállás u 6 1107 Budapest Hungary
Location of manufacturing sites	Köves J u 1 2943 Babolna Hungary

1.4. Manufacturer(s) of the active substance(s)

Active substance	1386 - S-Methoprene
Name of the manufacturer	Babolna Bio Ltd
Address of the manufacturer	Szállás u 6 1107 Budapest Hungary
Location of manufacturing sites	Szállás u 6 1107 Budapest Hungary

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
S-Methoprene		Active Substance	65733-16-6		5
Polyethylene glycol (15)-hydroxystearate		Non-active substance	70142-34-6		11,58

2.2. Type of formulation

CS - Capsule suspension

3. Hazard and precautionary statements

Hazard statements	<p>May cause an allergic skin reaction.</p> <p>Harmful to aquatic life with long lasting effects.</p>
Precautionary statements	<p>Avoid breathing spray.</p> <p>Wear protective gloves.</p> <p>IF ON SKIN:Wash with plenty of</p> <p>If skin irritation or rash occurs:Get medical advice.</p> <p>Wash contaminated clothing before reuse.</p> <p>Collect spillage.</p> <p>Dispose of contents to as hazardous waste.</p>

4. Authorised use(s)

4.1 Use description

Use 1 - PCO

Product type

PT18 - Insecticides, acaricides and products to control other arthropods (Pest control)

Where relevant, an exact description of the authorised use

mosquito control

Target organism(s) (including development stage)

Scientific name: Culicidae:
Common name: Culex mosquitoes
Development stage: Larvae

Scientific name: Culicidae:
Common name: Aedes mosquitoes
Development stage: Larvae

Field(s) of use

Outdoor

Possible breeding sites:

swamps and marshes, stagnant water, ditches, drains, flooded remnants, woodland pools, and possible breeding sites for mosquitoes. Apply in all the artificial water cumulations such as puddles, pools, artificial basins and in all the close hydraulic systems etc.

Application method(s)

Method: Spraying

Detailed description:

Detailed description of Application:

SHAKE WELL BEFORE USING. BIOPREN 50 LML may separate on standing and must be thoroughly agitated prior to dilution. Where possible use the mixture on the day of mixing.

1. Ground: Determine the average total spray volume applied per hectare by individual operators and/or specific equipment. Mix BIOPREN 50 LML in sufficient water to deliver the rate per hectare of BIOPREN 50 LML recommended on this label (220-360 mL/ha).

Aerial treatment – keep to local regulations!

2. Aerial: Low Volume (5-50 L/ha)

Boom and nozzle - Use the recommended amount of BIOPREN 50 LML (Liquid Mosquito Larvicide) in sufficient water to give good coverage. 5-50 L/ha of total spray volume is usually satisfactory. DO NOT apply when weather conditions favour drift from areas treated. A large droplet size (> 150 microns) is recommended to minimise drift and ensure good canopy penetration.

3. Aerial: Ultra-low Volume (5 L/ha)

Rotary atomiser - Use the recommended amount of BIOPREN 50 LML in sufficient water to give good atomisation and coverage. Dilution of 1 part BIOPREN 50 LML to 2 parts water is the recommended minimum. This results in a total application volume of 660mL (at the 220 mL/ha BIOPREN 50 LML rate) to 1080 mL (at the 360 mL/ha rate). The quantity of water may be increased to give a total spray volume of up to 5 L to give better coverage. A large droplet size (>150 microns) is recommended to minimise drift and ensure good canopy penetration.

Mixing:

	<p>DO NOT mix with oil. Always use clean equipment. Partially fill spray tank with water, then add the recommended amount of BIOPREN 50 LML, agitate and complete filling. Mild agitation during application is desirable.</p>
<p>Application rate(s) and frequencies</p>	<p>Application Rate: Dosage: Depends on the type of breeding site, quality and depth of water: Clean water 220 mL/hectare (water depth 30 cm) 290 mL/hectare (water depth > 30 cm) Slightly contaminated water (marshy, swampy area, riceland) 290 mL/hectare (water depth 30 cm) 360 mL/hectare (water depth > 30 cm) Highly contaminated water (sewer treatment plant,infiltration pool) 360 mL/hectare (water depth 30 cm) 400 mL/hectare (water depth > 30 cm) The given dosage should be diluted with water as the working solution volume is recommended to be 5-50 L/hectare. Pour 2-3 Liters water into the container of spraying equipment, add the suitable dosage of Biopren 50 LML concentrate and then fill up to the final volume. Dilution (%): 3 Number and timing of application: Depends on the rate of infestation. In general the residuality of the product is 7 -14 days pending onconditions.</p>
<p>Category(ies) of users</p>	<p>Industrial Trained professional Professional</p>
<p>Pack sizes and packaging material</p>	<p>Bottle - coexPE/PA or HDPE - up to 10 L Drum - metal drum with epoxy resin inner layer - up to 55 L Can /Tin - coEX PE/PA or HDPE - up to 10 L</p>

4.1.1 Use-specific instructions for use

NA

4.1.2 Use-specific risk mitigation measures

NA

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

NA

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

NA

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

NA

5. General directions for use

5.1. Instructions for use

BIOPREN 50 LML releases (S)-methoprene Insect Growth Regulator into water where mosquitoes breed. BIOPREN 50 LML prevents the emergence of adult mosquitoes including common Aedes and Culex from treated sites.

Treated larvae continue to develop normally to the pupal stage after which they fail to emerge and drown. BIOPREN 50 LML has sufficient activity to be effective against existing broods when applied to any larval stage at recommended rates. Third and fourth larval stages are more susceptible to the effects of S-methoprene than early stages.

(S)-methoprene has no effect on mosquitoes which have reached the pupal or adult stage prior to treatment.

Possible breeding sites:

swamps and marshes, stagnant water, ditches, drains, flooded remnants, woodland pools, and possible breeding sites for mosquitoes. Apply in all the artificial water cumulations such as puddles, pools, artificial basins and in all the close hydraulic systems etc.

Dosage:

Depends on the type of breeding site and depth of water:

Clean water

220 mL/hectare (water depth 30 cm) 290 mL/hectare (water depth > 30 cm)

Slightly contaminated water (marshy, swampy area, riceland)

290 mL/hectare (water depth 30 cm) 360 mL/hectare (water depth > 30 cm)

Highly contaminated water (sewer treatment plant, infiltration pool)

360 mL/hectare (water depth 30 cm) 400 mL/hectare (water depth > 30 cm)

The given dosage should be diluted with water as the working solution volume is recommended to be 5-50 L/hectare.

Pour 2-3 Liters water into the container of spraying equipment, add the suitable dosage of Biopren 50 LML concentrate and then fill up to the final volume.

Detailed description of Application:

SHAKE WELL BEFORE USING. BIOPREN 50 LML may separate on standing and must be thoroughly agitated prior to dilution.

Where possible use the mixture on the day of mixing.

1. Ground: Determine the average total spray volume applied per hectare by individual operators and/or specific equipment. Mix BIOPREN 50 LML in sufficient water to deliver the rate per hectare of BIOPREN 50 LML recommended on this label (220-360 mL/ha).

Aerial treatment – keep to local regulations!

2. Aerial: Low Volume (5-50 L/ha)

Boom and nozzle - Use the recommended amount of BIOPREN 50 LML (Liquid Mosquito Larvicide) in sufficient water to give good coverage. 5-50 L/ha of total spray volume is usually satisfactory. DO NOT apply when weather conditions favour drift from areas treated. A large droplet size (> 150 microns) is recommended to minimise drift and ensure good canopy penetration.

3. Aerial: Ultra-low Volume (5 L/ha)

Rotary atomiser - Use the recommended amount of BIOPREN 50 LML in sufficient water to give good atomisation and coverage.

Dilution of 1 part BIOPREN 50 LML to 2 parts water is the recommended minimum. This results in a total application volume of 660 mL (at the 220 mL/ha BIOPREN 50 LML rate) to 1080 mL (at the 360 mL/ha rate). The quantity of water may be increased to give a total spray volume of up to 5 L to give better coverage. A large droplet size (>150 microns) is recommended to minimise drift and ensure good canopy penetration.

For aerial application, BIOPREN 50 LML is NOT recommended where the water surface is obscured by vegetation.

Mixing:

DO NOT mix with oil.

Always use clean equipment. Partially fill spray tank with water, then add the recommended amount of BIOPREN 50 LML, agitate and complete filling. Mild agitation during application is desirable.

In general the residuality of the product is 7 -14 days pending on conditions.

5.2. Risk mitigation measures

Repeated exposure may cause allergic disorders therefore avoid contact with eyes and skin. When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

First Aid:

Inhalations: Aqueous preparation, vapours are not harmful.

Skin: Take off contaminated clothing and wash skin with soap and water.

Eyes: Rinse with plenty of water for a few minutes.

If swallowed: Rinse mouth, drink a few glasses of water.

Get medical attention if feel unwell.

5.4. Instructions for safe disposal of the product and its packaging

The product and its container should be disposed of as hazardous waste.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

The product can be used for 2 years from manufacture.
Always store unused product in a dry, cool place, in well ventilated area, out of direct sunlight, above 5 Celsius degree.
Keep out of reach of children and domestic animals.

6. Other information