

# MetaLarv<sup>®</sup> S-PT

## MOSQUITO GROWTH REGULATOR

### PELLET

#### ACTIVE INGREDIENT:

(S)-Methoprene (CAS # 65733-16-6) ..... 4.25%

OTHER INGREDIENTS ..... 95.75%

TOTAL ..... 100.00%

EPA Reg. No. 73049-475

EPA Est. No. 33762-IA-001

List No. 05765

#### INDEX:

- 1.0 First Aid
- 2.0 Precautionary Statements
  - 2.1 Hazard to Humans (and Domestic Animals)
  - 2.2 Environmental Hazards
- 3.0 Directions for Use
- 4.0 Application Directions
  - 4.1 Application Sites and Rates
- 5.0 Storage and Disposal
- 6.0 Warranty Statement

### KEEP OUT OF REACH OF CHILDREN CAUTION

#### 1.0

FIRST AID	
If in eyes	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>Call a poison control center for treatment advice.</li></ul>
If on skin or clothing	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (PROSAR service) 1-877-315-9819 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call Valent BioSciences 1-800-323-9597.	

#### 2.0 PRECAUTIONARY STATEMENTS

##### 2.1 Hazards To Humans and Domestic Animals CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

#### 2.2 Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

#### 3.0 DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

##### Introduction

MetaLarv S-PT is formulated to release S-Methoprene insect growth regulator for up to 42 days. MetaLarv S-PT prevents the emergence of *Aedes*, *Ochlerotatus*, and *Psorophora* spp., (adult floodwater mosquitoes) and *Anopheles*, *Culex*, *Culiseta*, *Coquillettidia*, and *Mansonia* spp (adult standing water mosquitoes).

NOTE: MetaLarv S-PT prevents development of mosquito larvae into adults. MetaLarv S-PT has no effect on mosquitoes that have reached the pupal or adult stage prior to treatment.

#### 4.0 APPLICATION DIRECTIONS

Apply MetaLarv S-PT to mosquito breeding sites at any time during the mosquito season. One application will control adult emergence for up to 42 days. Continue treatment through the last brood of the season. Treated larvae continue to develop normally to the pupal stage where they die.

Apply MetaLarv S-PT to breeding sites that will be intentionally flooded and to sites that will naturally flood, up to 28 days prior to flooding. Periods of greater than 28 days between application and flooding will provide shorter residual control and will need reapplication based on local program threshold requirements.

Apply the pellets evenly over the entire habitat that is flooded and/or expected to be flooded to maintain continuous control as the site alternately floods and dries. Alternate wetting and drying will not reduce pellet effectiveness.

MetaLarv S-PT can be applied to areas that contain fish, other aquatic life, and plants. MetaLarv S-PT can be applied to areas used by or in contact with humans, pets, horses, livestock, birds, or wildlife.

##### 4.1 Application Sites And Rates

Use lower application rates when water is shallow, vegetation and/or pollution are minimal, and mosquito populations are low. Use higher rates when water is deep (>2 ft), vegetation, pollution, and/or organic debris or water flow are high, and mosquito populations are high. Application of MetaLarv S-PT to sites subject to high organic pollution and water flow or exchange will diminish the product's effectiveness.

Use Sites	Rate Range (lbs/acre)
<b>Floodwater sites</b>	
Pastures, meadows, freshwater swamps and marshes, salt and tidal marshes, cattail marshes, woodland pools, flood-plains, grassy swales, bogs, tires, and artificial water-holding containers.	2.5-5
Dredge spoil sites, waste treatment and settling ponds, ditches, natural and manmade hollows or sinkhole (that retain water).	5-10
<b>Permanent water sites</b>	
Ornamental ponds and fountains, fish ponds, cattail marshes, water hyacinth beds, flooded crypts, transformer vaults, abandoned swimming pools, treeholes, manmade craters and pits, and artificial and natural water-holding containers.	2.5-5
Storm drains, catch basins, roadside ditches, cesspools, septic tanks, waste settling ponds, vegetation-choked phosphate pits.	5-10

CONTINUED

MetaLarv S-PT should be broadcast applied as a dry product. Applications can be made using fixed wing aircraft, helicopter, boat, tractor mounted spreader, handheld or backpack spreader. Fixed wing aircraft or helicopters equipped with granular spreaders capable of applying rates from 2.5-10 lb/acre may be used to apply MetaLarv S-PT. The pellets may also be applied using ground equipment that will achieve good, even coverage at rates from 2.5-10 lb/acre.

## 5.0 STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not contaminate water when disposing of equipment washwaters.

**Pesticide Storage:** Store any unused product in original container. Ensure that container is tightly closed then store in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## 6.0 WARRANTY STATEMENT

To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

MetaLarv is a registered trademark of Valent BioSciences Corporation.

**Metalarv S-PT Mosquito Growth Regulator Spherical Pellet**

SDS# VBC-0067 Revision 2

ISSUED 02/26/16

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY****1.1 Product Identifier****MATERIAL NAME:** Metalarv S-PT Mosquito Growth Regulator Spherical Pellet**Synonyms:** VBC-60215, Metalarv S-PT**EPA Reg No.:** 73049-475**Code Number:** 53725**List Number:** 05765**Substance Registration Number(s)[REACH]:** N/A**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Mosquito growth regulator**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences Corporation  
870 Technology Way  
Libertyville, Illinois 60048**1.4 EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

Outside the United States: 651-632-6184

Within the United States: 877-315-9819

**2. HAZARDS IDENTIFICATION****2.1 Classification of the Substance or Mixture**

Acute Aquatic Toxicity – Cat 1 (Daphnia/S-Methoprene).

**2.2 Labeling Elements****Symbol(s)****Signal Word**

WARNING

**Hazard Statement(s)**

Harmful to aquatic life (Daphnia)

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**2.3 Precautionary Statement:****Prevention**

Avoid release to the environment

**Response**

Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust. Do not flush to sewer.

**Disposal**

Dispose of contents/container in accordance with local/regional/national regulations.

**Safety**

Avoid release to the environment

**2.4 Other Hazards**

None identified.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

CAS #	Component Name	EC No.	(Classification)	Percent
65733-16-6	S-Methoprene		Acute Aquatic Toxicity – Cat 1 (Daphnia)	4.25
Trade Secret	Other ingredients		Not classified	95.75

**4. FIRST AID MEASURES****4.1 Description of First Aid Measures****GENERAL:** In all cases of doubt, seek medical attention.**EYES:** Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.**SKIN:** Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation occurs or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.**INGESTION:** Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

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**INHALATION:** Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, then give artificial respiration.

**4.2 Most important Symptoms and Effects, both Acute and Delayed****Acute**

Possible eye irritation

**Delayed**

No information on significant adverse effects

**4.3 Indication of any Immediate Medical Attention and Special Treatment Needed**

Treat symptomatically and supportively

**5. FIRE FIGHTING PROCEDURES****5.1 Extinguisher Media****Suitable Extinguisher Media**

Dry chemical, water spray, foam or carbon dioxide. Use appropriate medium for the underlying cause of the fire.

**Unsuitable Extinguisher Media**

None known

**5.2 Specific Hazards Arising from the Chemical****Thermal decomposition products**

Carbon oxides, nitrogen oxides

**5.3 Advice to Firefighters****Protective Equipment and precautions for firefighters**

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection)

**Fire & Explosive hazard**

Not expected to be flammable.

**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Wear a dust/mist filtering respirator, eye protection and impervious gloves.

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**6.2 Environmental Precautions**

Dispose of excess product and washwaters according to local regulations.

**6.3 Methods and Materials for Containment and Cleaning Up**

Wear appropriate personal protective equipment. Sweep up material and place in appropriate container for disposal. Avoid generating dust. Do not flush to sewer.

**6.4 Reference to Other Sections**

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: REGULATORY INFORMATION for details on reportable quantities, if any.

**7. HANDLING AND STORAGE****7.1 Precautions for Safe handling**

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink or smoke while working with product, obey reasonable safety precautions and practice good housekeeping.

**7.2 Conditions for Safe Storage, Including Incompatibilities**

Store in a cool, dry place

**Incompatibilities**

None Known

**7.3 Specific End Use(s)**

Mosquito growth regulator

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control Parameters****Component Exposure Limits**

None

**Derived No Effect Levels (DNELs)**

No DNELs available

**Predicted No Effect Concentrations (PNECs)**

No PNECs available

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## 8.2 Exposure Controls

### Appropriate Engineering Controls

Provide general ventilation.

### SKIN PROTECTION:

Wear impervious protective clothing, including boots and gloves. Wear gloves made of impervious materials. Wash thoroughly with soap and water after handling.

### EYE PROTECTION:

Wear goggles, safety glasses with side shields or full-face shield when splashing or spraying of materials is likely.

### RESPIRATORY PROTECTION:

Use dust/mist filtering respirator (MSHA/NIOSH approved number prefix TC-21C or a NIOSH approved respirator with any N, P, R or HE filter.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on Basic Physical and Chemical Properties

Appearance:	Rust & light grey-brown Solid Pellet	Odor:	Slight odor of mold
pH:	9.5 (1% w/v)	Boiling Point:	Not Determined
Melting Point:	Not Applicable	Solubility (H <sub>2</sub> O):	Not Determined
Specific Gravity:	Not Determined	Bulk Density:	0.72 g/ml
Octanol/H <sub>2</sub> O Coeff:	Not Determined	Evaporation Rate:	Not Determined
Molecular Weight:	Not Applicable	Decomposition Temp.:	Not Determined
Auto Ignition:	Not Determined	LFL:	Not Determined
Flash Point:	Not Determined	UFL:	Not Determined
Vapor Density:	Not Determined	Vapor Pressure:	Not Applicable
VOC:	Not Determined	Flammability Class:	Not Determined
Kinematic Viscosity:	Not Determined		

## **10. CHEMICAL STABILITY AND REACTIVITY**

### 10.1 Reactivity

Material does not pose a significant reactivity hazard.

### 10.2 Chemical Stability

Stable under ordinary conditions of use and storage. Spontaneous reaction not possible.

### 10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization



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**10.4 Conditions to Avoid**

None known

**10.5 Incompatible Materials**

None known

**10.6 Hazardous Decomposition Products**

Carbon oxides and unidentified organic compounds.

**11. TOXICOLOGICAL INFORMATION****11.1 Information on Toxicological Effects**

## LIKELY ROUTES OF EXPOSURE

Eye Contact:	Yes
Skin Contact:	Yes
Inhalation:	Yes
Ingestion:	No

## ACUTE EFFECTS Product Toxicology Studies

ORAL TOXICITY: LD<sub>50</sub> > 5,000 mg/kg (rat)DERMAL TOXICITY: LD<sub>50</sub> > 5,000 mg/kg (rabbit)INHALATION TOXICITY: LC<sub>50</sub> > 5.09 mg/L

CORROSIVENESS: Not corrosive.

DERMAL IRRITATION: Not irritating, (Category IV)

OCULAR IRRITATION: Minimally irritating, (Category IV)

DERMAL SENSITIZATION: Not a sensitizer (guinea pig)

MUTAGENICITY INFORMATION: Components of this product are not listed as mutagens.

CARCINOGENICITY INFORMATION: Components of this product are not listed as carcinogenic by  
NTP, IARC or OSHA.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY: This material is not pathogenic

SPECIAL TARGET ORGAN EFFECTS: None

ASPIRATION HAZARD: Not Applicable

REPEAT DOSE STUDIES: Not Applicable, Pathogenicity Toxicity testing was all  
negative**12. ECOLOGICAL INFORMATION****12.1 Ecotoxicity (Data for a Concentrated S-Methoprene Technical Powder)**Fish: LC<sub>50</sub> > 4.26 mg/L (96-H, Zebra Fish); NOEC: 1.25 mg/LAlgae: EC<sub>50</sub> > 2.264 mg/L (48-H)Invertebrates: EC<sub>50</sub> > 0.22 mg/L (48-H) (Daphnia)



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**12.2 Persistence and Degradability**

No data available

**12.3 Bioaccumulation potential**

No data available

**12.4 Mobility in Soil**

No data available

**12.5 Results of PBT and vPvB assessment**

Assessments not performed

**12.6 Other adverse effects**

None known

**13. DISPOSAL CONSIDERATIONS****13.1 Waste Disposal Methods**

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

US EPA WASTE NUMBER & DESCRIPTIONS: There is no applicable EPA waste number. This product, if discarded, is not expected to be a characteristic or listed hazardous waste.

**14. TRANSPORTATION INFORMATION****DOT**

STATUS: Not regulated for domestic ground transport by US DOT

UN PROPER SHIPPING NAME: N/A

REMARKS: N/A

**IATA/ICA0**

STATUS: Regulated

PROPER SHIPPING NAME: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (S-Methoprene), 9, III, Marine Pollutant

REMARKS: Single or inner packaging less 5 kg net (solids) exempted from Dangerous Goods regulations – see IATA Special Provision A197

**IMDG**

STATUS: Regulated

PROPER SHIPPING NAME: UN3077 Environmentally Hazardous Substance, Solid, N.O.S. (S-Methoprene), 9, III, Marine Pollutant

REMARKS: Single or inner packaging less 5 kg net (solids) exempted from Dangerous Goods regulations – see IMDG 2.10.2.7

**Metalaryv S-PT Mosquito Growth Regulator Spherical Pellet****SDS# VBC-0067 Revision 2****ISSUED 02/26/16**

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**15. REGULATORY INFORMATION****15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: Exempt

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: No Chronic: No Fire: No CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know: Not Listed

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

OSHA HAZARD COMMUNICATION STANDARD: Not defined by the OSHA Hazard Communication Standard, 29 CFR

**15.2 EPA Pesticide Regulations**

EPA Registration Number 73049-475

EPA Pesticide Label signal word: CAUTION

Product must have EPA Approved Pesticide Label attached to or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

KEEP OUT OF REACH OF CHILDREN  
CAUTION

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal. Do not contaminate water when disposing of equipment washwaters.

**PESTICIDE STORAGE:** Store any unused product in original container. Ensure that container is tightly closed then store in a cool, dry place.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**16. OTHER INFORMATION****NFPA Hazard Ratings**

Health: 1  
Flammability: 0  
Instability: 0

**HMIS Hazard Ratings**

Health: 1  
Flammability: 0  
Instability: 0

0 = Minimal  
1 = Slight  
2 = Moderate  
3 = Serious  
4 = Extreme

**REASON FOR ISSUE:** Corrected typo in the transportation section

**APPROVAL DATE:** 02/26/16

**SUPERSEDES DATE:** 02/11/16

**LEGEND:** N/A = Not Applicable

N/L = Not Listed

C = Ceiling

(R) = Registered Trademark of Valent BioSciences Corp.

(TM) = Registered Trademark of Valent BioSciences Corp.

N/D = Not Determined

L = Listed

S = Short-term

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent BioSciences Corporation and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent BioSciences Corporation nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the

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product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent BioSciences Corporation to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



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