



# Altosid<sup>®</sup> XR EXTENDED RESIDUAL BRIQUETS

**A SUSTAINED RELEASE PRODUCT TO PREVENT ADULT MOSQUITO EMERGENCE  
(INCLUDING THOSE WHICH MAY TRANSMIT WEST NILE VIRUS)**

## SPECIMEN LABEL

**ACTIVE INGREDIENT:**

(S)-Methoprene (CAS #65733-16-6)  
(Dry Weight Basis): . . . . . 2.1%

**OTHER INGREDIENTS:** . . . . . 97.9%  
Total. . . . . 100.0%

EPA Reg. No. 2724-421  
EPA Est. No. 2724-TX-1

KEEP OUT OF REACH OF CHILDREN  
**CAUTION**  
SEE ADDITIONAL PRECAUTIONARY STATEMENTS

**INTRODUCTION**

**ALTOSID<sup>®</sup> XR BRIQUETS** are designed to release effective levels of (S)-Methoprene insect growth regulator over a period up to 150 days in mosquito breeding sites. Release of (S)-Methoprene insect growth regulator occurs by dissolution of the briquet. Soft mud and loose sediment can cover the briquets and inhibit normal dispersion of the active ingredient. The product may not be effective in those situations where the briquet can be removed from the site by flushing action.

**ALTOSID<sup>®</sup> XR BRIQUETS** prevent the emergence of adult mosquitoes including: *Anopheles*, *Culex*, *Culiseta*, *Coquillettidia*, and *Mansonia* spp., as well as those of the floodwater mosquito complex (*Aedes*, *Ochlerotatus*, and *Psorophora* spp.) from treated water. Treated larvae continue to develop normally to the pupal stage where they die.

**NOTE:** (S)-Methoprene insect growth regulator has no effect on mosquitoes which have reached the pupal or adult stage prior to treatment.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC  
ANIMALS - CAUTION**

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

<b>FIRST AID</b>	
Call a poison control center or doctor for treatment advice.	
<b>If in eyes</b>	<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> </ul>
<b>If on skin or clothing</b>	<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> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-248-7763 for emergency medical treatment information.	

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of unused product.

**DIRECTIONS FOR USE**

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

## APPLICATION TIME

Place **ALTOSID® XR BRIQUETS** at or before the beginning of the mosquito season. Apply **ALTOSID® XR BRIQUETS** prior to flooding when sites are dry, or on snow and ice in breeding sites prior to spring thaw. Under normal conditions, one application will last the entire mosquito season, or up to 150 days, whichever is shorter. Alternate wetting and drying will not reduce their effectiveness.

## APPLICATION RATES

**Aedes, Ochlerotatus, and Psorophora spp.:** For control in non-(or low-) flow shallow depressions ( $\leq 2$  feet in depth), treat on the basis of surface area, placing one **ALTOSID® XR BRIQUET** per 200 ft<sup>2</sup>. Place briquets in the lowest areas of mosquito breeding sites to maintain continuous control as the site alternately floods and dries up.

**Culex, Culiseta and Anopheles spp.:** Place one **ALTOSID® XR BRIQUET** per 100 ft<sup>2</sup>.

**Coquillettidia and Mansonia spp.:** For application to cattail marshes and water hyacinth beds. For control of these mosquitoes, place one **ALTOSID® XR BRIQUET** per 100 ft<sup>2</sup>.

**Culex sp. in storm water drainage areas, sewers, and catch basins:** For catch basins, place one **ALTOSID® XR BRIQUET** into each basin. In cases of large catch basins, follow the chart below to determine the number of briquets to use. For storm water drainage areas, place one briquet per 100 ft<sup>2</sup> of surface area up to two ft deep. In areas that are deeper than two feet, use one additional briquet per two feet of water depth.

Water flow pressure increases the potential dissolution of the briquet. Conduct regular inspections (visual or biological) in areas of water flow to determine if the briquet is still present. Adjust the retreatment interval based on the results of an inspection.

### ALTOSID® XR BRIQUETS Application Chart

Number of Briquets	Catch Basin Size (Gallons)	Surface Area/ Water Depth (ft)
1	0 – 1500	0 – 2
2	1500 – 3000	2 – 4
3	3000 – 4500	4 – 6
4	4500 – 6000	6 – 8

## APPLICATION SITES

**ALTOSID® XR BRIQUETS** are designed to control mosquitoes in treated areas. Examples of application sites are: storm drains, catch basins, roadside ditches, fish ponds, ornamental ponds and fountains, other artificial water-holding containers, animal watering troughs, cesspools and septic tanks, waste treatment and settling ponds, flooded crypts, transformer vaults, abandoned swimming pools, tires, construction and other manmade depressions, cattail marshes, water hyacinth beds, vegetation-choked phosphate pits, pastures, meadows, rice fields, freshwater swamps and marshes, salt and tidal marshes, treeholes, woodland pools, floodplains, and dredging spoil sites. For application sites connected by a water system, i.e., storm drains or catch basins, treat all of the water-holding sites in the system to maximize the efficiency of the treatment program.

## STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**STORAGE:** Store in a cool place. Do not reuse empty container.

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

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

## WARRANTY AND CONDITIONS OF SALE

Seller makes no warranty, expressed or implied, concerning the use and handling of this product other than indicated on the label. To the extent permitted by law, Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information, or in case of an emergency, call 1-800-248-7763.

[www.altosid.com](http://www.altosid.com)

**Wellmark International**  
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**MATERIAL SAFETY DATA SHEET**  
**ZOECON ALTOSID® XR EXTENDED RESIDUAL BRIQUETS**

**Manufacturer:** Wellmark International  
**Address:** 1501 E. Woodfield Rd., Suite 200 West, Schaumburg, IL 60173  
**Emergency Phone:** 1-800-248-7763  
**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

**1. CHEMICAL PRODUCT INFORMATION**

**Product Name:** Zoecon Altosid® XR Extended Residual Briquets  
**Chemical Name/Synonym:** (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate  
**Chemical Family:** Terpenoid  
**Formula:** C<sub>19</sub> H<sub>34</sub> O<sub>3</sub>  
**EPA Registration No.:** 2724-421  
**RF Number:** 292A

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(S)- Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	2.1%	Not established
Inert ingredients (non-hazardous and/or trade secret)		97.9%	

**3. HAZARD INFORMATION**

**PRECAUTIONARY STATEMENT**  
Caution: Keep out of the reach of children.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

No adverse reactions have resulted from normal human exposure during research and testing. Adverse animal reactions to this product have not been shown.

**PRIMARY ROUTE OF ENTRY**      **Dermal/Eye:** Yes                      **Oral:** Yes                      **Inhalation** No

**ACUTE TOXICITY**

**Oral:** LD50 (rat): >34,000 mg/kg (highest dose level tested)(Based on (S)-Methoprene)

**Dermal:** LD50 (rabbit): >2,000 mg/kg (Hot) (highest dose level tested) (Based on (S)-Methoprene)

**Inhalation:** LC50 (rat): Not applicable to this product form

**OTHER TOXICOLOGICAL INFORMATION**

**Skin Irritation:** Non-irritating (rabbit) (Based on (S) Methoprene)  
**Eye Irritation:** Mild/moderate irritation, corneal opacity at 1 hour - all animals clear by 72 hours (rabbit) (Based on (S) Methoprene)  
**Sensitizer:** Not a sensitizer (guinea pig) (Based on (S) Methoprene)

#### 4. FIRST AID MEASURES

- Eye:** Hold eye open and flush slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.
- Skin:** Wash material off with soap and water. Remove contaminated clothing and footwear. See a physician if symptoms persist.
- Ingestion:** Drink 1-2 glasses of water and try to induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Although this is not a primary route of entry, remove victim to fresh air. See a physician if cough or other respiratory symptoms develop
- Note to Physician:** Treat symptomatically

#### 5. FIRE FIGHTING MEASURES

- NFPA Rating:**    **Health: 0**                      **Fire: 0**                      **Reactivity: 0**
- Flammability Class:** N/A
- Flash Point:** Does not flash
- Explosive Limits (% of Volume):** N/A
- Extinguishing Media:** Water, foam, dry chemical
- Special Protective Equipment:** Firefighters should wear protective clothing, eye protection, and self contained breathing apparatus.
- Fire Fighting Procedures:** Normal procedures. Do not allow run-off to enter waterways inhabited by aquatic organisms
- Combustion Products:** None known
- Unusual Fire/Explosion Hazards:** None

#### 6. ACCIDENTAL RELEASE MEASURES

- Steps to be taken:** Sweep up material and place in a container for disposal. Do not allow spill to enter waterways inhabited by aquatic organisms
- Absorbents:** Not necessary due to product form and packaging
- Incompatibles:** None

#### 7. HANDLING AND STORAGE

- Handling:** Avoid contact with eyes or clothing. Do not remove briquets from container except for immediate use. Avoid breathing dust. Wash thoroughly with soap and water after handling.
- Storage:** Store in a cool, dry place. Do not contaminate food or feed by storage or disposal. Keep away from children.

#### 8. EXPOSURE CONTROL / PERSONAL MEASURES

- Exposure Limits:** Not Applicable
- Ventilation:** Use with adequate ventilation.
- Personal Protective Equipment:** Under ordinary use conditions, no special protection is required. If prolonged exposure is expected, it is recommended to wear a MSHA/NIOSH approved organic vapor/pesticide respirator, impervious gloves, chemical goggles or safety glasses with side shields.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Grey to black solid with slight hydrocarbon odor.
<b>Boiling Point:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Vapor Density (Air = 1):</b>	N/A
<b>Specific Gravity:</b>	1.8492 g/cc
<b>Bulk Density:</b>	N/A
<b>Solubility:</b>	1 ppm
<b>Evaporation Rate:</b>	N/A
<b>pH:</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Reactivity:</b>	Non-reactive
<b>Incompatibility w/ Other Materials:</b>	None
<b>Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### **CHRONIC TOXICITY [Specific to Active Ingredient(s)]**

Methoprene is not considered as an oncogenic compound. The NOEL for non-carcinogen effects in an 18-month mouse study was 250ppm.

### **DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]**

Methoprene is not a teratogenic compound. The NOEL for maternal and embryo toxicity in rabbits was 200/mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

### **MUTAGENICITY [Specific to Active Ingredient(s)]**

Methoprene is not a mutagenic compound.

## 12. ECOLOGICAL INFORMATION

### **ENVIRONMENTAL FATE [Based on (RS)-Methoprene]**

<b>Hydrolysis:</b>	T1/2 > 4 weeks
<b>Photolysis:</b>	T1/2 < 10 hours
<b>Soil half life:</b>	~ 10 days
<b>Water solubility:</b>	< 2 ppm

### **ECOTOXICITY [Based on (S)-Methoprene]**

**Acute Toxicity:** fish:LC50 (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene); aquatic invertebrates:LC50 (Daphnia): 360 ppb ((S)-Methoprene This product is toxic to aquatic dipteran. )

### 13. DISPOSAL CONSIDERATIONS

Dispose of empty bag in sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

### 14. TRANSPORT INFORMATION

**DOT49CFR Description:** Not regulated as hazardous by D.O.T.

**Freight Classification:** Insecticides, NOI other than poison in boxes or drums. NMFC 102120

### 15. REGULATORY INFORMATION

**CERCLA (Superfund):** Not regulated

**RCRA:** Not regulated as hazardous

#### **SARA 311/312 HAZARD CATEGORIES**

**Immediate Health:** Yes (irritation)

**Delayed Health:** No

**Fire:** No

**Sudden Pressure:** No

**Reactivity:** No

*The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all inclusive and the manner and conditions of use and handling may involve other or additional considerations.*