

**ALTOSID[®] XR
BRIQUETS**

RESTRICTED

**AN INSECT GROWTH REGULATOR TO PREVENT ADULT
MOSQUITO EMERGENCE**

GUARANTEE

(S)-METHOPRENE2.1%

REGISTRATION NO. 27694 PEST CONTROL PRODUCTS ACT

READ THE LABEL BEFORE USING

KEEP OUT OF REACH OF CHILDREN

CAUTION - EYE IRRITANT

THIS PRODUCT CONTAINS WATER. THEREFORE THE WEIGHT
OF THE BRIQUET AND PERCENT BY WEIGHT OF ACTIVE
INGREDIENT WILL VARY WITH HYDRATION. THE GUARANTEE IS EXPRESSED ON A DRY
WEIGHT BASIS.

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

NET WEIGHT: 8 Kg
Contains 220 briquets

Wellmark International
5420 Hwy. 6 N., Suite B30
Guelph, ON
N1H 6J2
1-800-263-2740

NOTICE TO USER:

This control product is to be used only in accordance with the directions on this label. It is an offence under the *Pest Control Products Act* to use a control product under unsafe conditions.

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.

INTRODUCTION:

ALTOSID XR BRIQUETS are designed to release (S)-methoprene, an insect growth regulator, in mosquito breeding sites by dissolution of the briquet. Soft mud and loose sediment can cover the briquets and inhibit normal dispersion of the active ingredient in water. Briquets flushed from treated sites will no longer be effective. ALTOSID XR BRIQUETS prevent the emergence of adult mosquitoes, including *Culex* spp. from treated water.

NOTE:

Larvae in treated sites will continue to develop normally to the pupal stage, and will only die then. As (S)-methoprene is an insect growth regulator, it has no effect on mosquitoes which have reached the pupal or adult stage prior to treatment.

RESTRICTED USES: DIRECTIONS FOR USE**APPLICATION SITES:**

Apply ALTOSID XR BRIQUETS in storm sewers and catch basins by hand. All water-holding sites within the system should be treated to maximize the efficiency of the treatment program.

APPLICATION TIMING:

Apply ALTOSID XR BRIQUETS early in the mosquito season, when larvae start to develop. Monitor larval populations to determine if and when further applications are required.

APPLICATION RATES:

Culex spp. in storm sewers and catch basins:

For catch basins up to 5500 L, place 1 briquet per basin. In cases of large catch basins, refer to the chart below to determine the number of briquets required.

CHART OF APPLICATION RATES FOR CATCH BASINS

Catch Basin Size (Litres)	Number of Briquets
Up to 5, 500	1
5, 501-11,000	2
11,001 – 16,500	3
16,501 - 22,000	4

Large water flows may accelerate the dissolution of the briquet. Monitor larval populations to determine if and when further applications are required.

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Use gloves when handling or applying product. Do not use on food crops or in water which may be used for immediate human or livestock drinking purposes. This product contains a petroleum distillate which is toxic to aquatic organisms. 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 in eyes, immediately flush eyes with plenty of water. Seek medical attention if irritation persists. **If on skin**, wash with water and soap. Remove contaminated clothing and launder before re-use. **If ingested in large quantities**, drink one or two glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person. Apply artificial respiration if indicated. Seek medical attention or call a poison control centre IMMEDIATELY. **If inhaled**, remove patient to fresh air. Provide artificial respiration, if indicated. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION:

Treat symptomatically.

STORAGE AND DISPOSAL:

Store in a cool, dry place and away from direct sunlight. Do not contaminate water, food or feed by storage or disposal. Do not reuse this container for any purpose. Follow provincial instructions for any required additional cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. 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.

NOTICE TO BUYER:

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

For information or in case of emergency, call 1-800-248-7763 or visit our web site www.altosid.com.

ALTOSID is a registered trademark of Wellmark International.

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MATERIAL SAFETY DATA SHEET
ALTOSID® XR BRIQUETS

Manufacturer: Wellmark International
Address: 1501 East Woodfield Road, Suite 200W, Schaumburg, IL 60173
Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CANUTEC 613-996-6666

Supplier:
 Wellmark International
 100 Stone Road West, Suite 111, Guelph, ON N1G 5L3
 1-800-263-2740

1. CHEMICAL PRODUCT INFORMATION

Product Name: Altosid® XR Briquets
Chemical Name/Synonym: (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate
Chemical Family: Terpenoid
Formula: C₁₉ H₃₄ O₃
PMRA Registration No.: 27694
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	<u>Dermal/Eye:</u>	<u>Oral:</u>	<u>Inhalation</u>
	Yes	Yes	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

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

10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Non-reactive
Incompatibility w/ Other Materials:	None
Decomposition Products:	None
Hazardous Polymerization:	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]

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

Waste Disposal:

Entire contents must be used as per label instructions. Do not reuse this container for any purpose. Follow provincial instructions for any required additional cleaning of the container prior to disposal. Dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency.

14. TRANSPORTATION INFORMATION

TDG Shipping Description	TDG Symbols	Special Shipping Information
Not regulated for transport	N/A	N/A

15. REGULATORY INFORMATION

WHMIS Classification	WHMIS Symbols	Statement
Not a controlled product	N/A	This product has been regulated under the Pest Control Products Acts, and is exempt from WHMIS requirements.

Other Regulatory Information:

N/A

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.