

MATERIAL SAFETY DATA SHEET

ZOECON ALTOSID® XR EXTENDED RESIDUAL BRIQUETS

Manufacturer: Wellmark International
Address: 1501 East Woodfield Road, Suite 200 West, Schaumburg, IL 60173
Emergency Phone: 1-888-914-2082
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: C₁₉ H₃₄ O₃
EPA Registration No.: 2724-421
RF Number: RF-292

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
KEEP OUT OF REACH OF CHILDREN
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.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

ACUTE TOXICITY
Oral: No specific hazard identified
Dermal: Harmful if absorbed through skin
Inhalation: No specific hazard identified

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Mild irritating
Eye Irritation: Moderate eye irritant
Sensitizer: Not a skin sensitizer

4. FIRST AID MEASURES

- 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.
 - Call a poison control center or doctor for treatment advice.

- If on skin:**
- Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for treatment advice.

Note to Physician: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

5. FIRE FIGHTING MEASURES

NFPA Rating:	Health: 1	Fire: 0	Reactivity: 0
Flammability Class:	Solid		
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, skin 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:** Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling. Use good Industrial Hygiene practices including protective gloves and eyewear. If prolonged exposure to high levels of dust is expected, approved respiratory protection may be required.

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

ACUTE TOXICITY

Acute oral toxicity: LD50 >5,100 mg/kg
Acute dermal toxicity: LD50 >2100 mg/kg
Acute inhalation: LC50 >5.19 mg/L (S-methoprene)
Skin irritation: Mild skin irritant
Eye irritation: Moderate eye irritant
Not a dermal sensitizer

CHRONIC TOXICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not considered a carcinogen. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

MUTAGENICITY [Based on (RS)-Methoprene Technical]

(R,S)-Methoprene is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Based on (RS)-Methoprene]

Hydrolysis: T_{1/2} > 4 weeks

Photolysis: T_{1/2} < 10 hours

Soil half life: ~ 10 days

Water solubility: 0.52 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

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

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.