

MATERIAL SAFETY DATA SHEET
ZOECON® ALTOSID® SBG SINGLE BROOD GRANULE

Manufacturer: Wellmark International
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Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Zoecon® Altosid® SBG Single Brood Granule
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.: 2724-489
RF Number: 9805

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-trimethyl-2,4-dodecadienoate	65733-16-6	0.2%	Not established
Inert ingredients (trade secret and/or non-hazardous)		99.8%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash hands thoroughly with soap and water after handling.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

No adverse reactions have resulted from normal human exposure during research and testing

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

ACUTE TOXICITY
Oral: LD₅₀ (rat): >34,000 mg/kg – Tox Category IV
Dermal: LD₅₀ (rabbit)>2,100 mg/kg – Tox Category III
Inhalation: LC50 (rat) > 210 mg/L air (R/S) Methoprene – Tox Category IV

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation: Non-Irritating – Tox Category IV
Eye Irritation: Mildly Irritating – Tox Category III
Sensitizer: Not a dermal Sensitizer

4. FIRST AID MEASURES

- Eye:** Flush eyes with plenty of water. Call a physician if irritation persists
- Skin:** Wash with plenty of soap and water. Get medical attention.
- Ingestion:** Give 1-2 glasses of water and try to induce vomiting. Refer victim to medical personnel. Never give anything by mouth to an unconscious person.
- Inhalation:** Not likely due to product form. Remove to fresh air.
- 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):** Not applicable
- Extinguishing Media:** Water, foam, CO₂
- Special Protective Equipment:** Firefighters should wear full protective clothing including self contained breathing apparatus
- Fire Fighting Procedures:** Normal procedures. Do not allow fire fighting water to escape into waterways or sewers
- Combustion Products:** None known
- Unusual Fire/Explosion Hazards:** None known

6. ACCIDENTAL RELEASE MEASURES

- Steps to be taken:** Sweep up material. Place in a container for disposal. Do not allow spill to enter waterways inhabited by aquatic organisms. Do not contaminate water when disposing of rinsate or equipment washwaters.
- Absorbents:** Due to product form none necessary. If in liquid form absorb with clay granules, sawdust, dirt or equivalent
- Incompatibles:** None known

7. HANDLING AND STORAGE

- Handling:** Due to size and abrasiveness of granule, use protective eyewear and clothing to minimize exposure during loading and handling.
- Storage:** Do not contaminate water, food or feed by storage or disposal. Store closed containers in a cool, dry place.

8. EXPOSURE CONTROL / PERSONAL MEASURES

- Exposure Limits:** Not Applicable
- Ventilation:** Use with adequate ventilation.
- Personal Protective Equipment:** Due to the size and abrasiveness of the granule, use protective eyewear and clothing to minimize exposure during loading and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	yellowish brown granules with musty odor
Boiling Point:	N/A
Melting Point:	N/A
Vapor Pressure (mm Hg):	N/A
Vapor Density (Air = 1):	N/A
Specific Gravity:	2.474 where H ₂ O=1
Bulk Density:	75 lbs/ft ³
Solubility:	appreciable
Evaporation Rate:	N/A
pH:	6.53

10. STABILITY AND REACTIVITY

Stability:	Stable
Reactivity:	Non-Reactive
Incompatibility w/ Other Materials:	None Known
Decomposition Products:	None Known
Hazardous Polymerization:	Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Based on (RS)- Methoprene]

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

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

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 [Specific to Ingredient(s)]

Methoprene is not a mutagenic compound. (Based on (RS)- Methoprene)

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE(Based on Active Ingredients Only)

Hydrolysis:	Not hydrolyzed up to 30 days
Photolysis:	Rapidly degraded in sunlight
Soil half life:	10-14 days, rapidly hydrolyzed in soil
Water solubility:	Disperses in water

ECOTOXICITY [Based on Active Ingredients Only]

Acute Toxicity:	Fish: Trout LC50 760 ppb Bluegill >370 ppb
	Aquatic Invertebrates: Daphnia LC50 360 ppb

13. DISPOSAL CONSIDERATIONS

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Completely empty bag into application equipment. **Container Disposal:** 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

14. TRANSPORT INFORMATION

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

Freight Classification: Insecticides, NOI other than poison

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated

RCRA: Not regulated

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritant)

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.