

MATERIAL SAFETY DATA SHEET
ZOECON ALTOSID® CP-10

Manufacturer: Wellmark International
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1. CHEMICAL PRODUCT INFORMATION

Product Name: Zoecon Altosid® CP-10
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.: 2724-367
RF Number: 9703

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	10.5%	Not established
Inert ingredients (nonhazardous and/or trade secret):		89.5%	
Silicon Dioxide	7631-86-9		80mg/m ³
	112926-00-8		%SiO ₂ (OSHA)

3. HAZARD INFORMATION

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

SIGNS AND SYMPTOMS OF OVEREXPOSURE

No adverse reactions have resulted from human exposure during research or manufacture.

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

ACUTE TOXICITY

Oral: LD50 (rat): >34,600 mg/kg bw (highest dose tested) (Based on S-Methoprene)

Dermal: LD50 (rabbit): >5,000 mg/kg bw (Based on S-Methoprene)

Inhalation: 4-hour LC50 (rat) > 5.19 mg/L air (Based on S-Methoprene)

OTHER TOXICOLOGICAL INFORMATION

- Skin Irritation:** Non-irritating (rabbit) (Based on S-Methoprene)
Eye Irritation: Practically non-irritating (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 doctor if symptoms develop.
- Ingestion:** Give 1 or 2 glasses of water to drink and try to induce vomiting. Refer individual to medical personnel. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove victim to fresh air. See a doctor 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, 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:** Carbon dioxide, carbon monoxide
- 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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in a NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
- Absorbents:** Due to product form, none necessary. If in liquid form, use clay granules, sawdust, dirt or equivalent.
- Incompatibles:** None known

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, or skin. Avoid inhalation of dust. Wash thoroughly with soap and water after handling.

Storage: Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry place

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: OSHA PEL 15mg/m³ (Total dust) 8-hour TWA. Silica-Amorphous Silica Gel 80mg/m³ ÷ %SiO₂ (OSHA).

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: If prolonged exposure is anticipated, it is recommended for handlers to wear a MSHA/NIOSH approved organic vapor/dust/pesticide respirator, impervious gloves, goggles, and other appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Free flowing, dry, white powder - odorless

Boiling Point: Not Applicable

Melting Point: Not Applicable

Vapor Pressure (mm Hg): Not Applicable

Vapor Density (Air = 1): Not Applicable

Specific Gravity: Not Applicable

Bulk Density: 15 lbs./cu. Ft.

Solubility: Not determined

Evaporation Rate: Not Applicable

pH: Not Applicable

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Non-reactive

Incompatibility w/ Other Materials: None known

Decomposition Products: Carbon monoxide and carbon dioxide

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [R/S Methoprene]

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

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [R/S Methoprene]

Methoprene is not a teratogen. 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 Active Ingredient(s)]

Methoprene is not a mutagen.

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: LC50 (trout): 760ppb, (Bluegill): >370ppb
aquatic invertebrates: LC50 (Daphnia): 360 ppb

13. DISPOSAL CONSIDERATIONS

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Completely empty container into application equipment. Then 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.

14. TRANSPORT INFORMATION

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

Freight Classification: Insecticides, NOI other than poisons 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.