

MATERIAL SAFETY DATA SHEET
Altosid® IGR 2% Manufacturing Use Product

Manufacturer: Wellmark International
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1. CHEMICAL PRODUCT INFORMATION

Product Name: Altosid® IGR 2% Manufacturing Use Product
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.: 2724-502
RF Number: 2038 Granule

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	2.0%	Not established
Inert Ingredients (non-hazardous and/or trade secret)		98.00%	Not established

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT
Caution: Keep out of 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: No Inhalation: No

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 copious amounts of 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 individual 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: Do not allow spill to enter waterways. Sweep up material and place in a container for disposal.

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: Not Established

Ventilation: Use with adequate ventilation.

Personal Protective Equipment: Under ordinary use conditions, no special protection is required. 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:	Reddish-brown granular solid with molasses-like odor
Boiling Point:	Not Applicable
Melting Point:	Not Applicable
Vapor Pressure (mm Hg):	Not Applicable
Vapor Density (Air = 1):	Not Applicable
Specific Gravity:	1.33
Bulk Density:	48-52 lb./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 [RS 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 [RS Methoprene]

Methoprene is not a teratogen. 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 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 [Active Ingredients Only] (Based on S-Methoprene)

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

13. DISPOSAL CONSIDERATIONS

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. 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 poisons NMFC 102120

15. REGULATORY INFORMATION

CERCLA (Superfund): Not regulated

RCRA: Not regulated as hazardous

SARA 311/312 HAZARD CATEGORIES

Immediate Health: No

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.