

## MATERIAL SAFETY DATA SHEET

### ALTOSID® GRANULES

**Manufacturer:** Wellmark International  
**Address:** 1501 East Woodfield Road, Suite 200W, Schaumburg, IL 60173  
**Emergency Phone:** 1-800-248-7763  
**Supplier:** Wellmark International  
 100 Stone Road West, Suite 111, Guelph, ON N1G 5L3  
**Emergency Phone:** 1-800-263-2740  
**Transportation Emergency Phone:** CANUTEC 613-996-6666

#### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Altosid® Granules  
**Chemical Name/Synonym:** (S)- Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11 trimethyl-2,4-dodecadienoate  
**Chemical Family:** Terpenoid  
**Formula:** C<sub>19</sub> H<sub>34</sub> O<sub>3</sub>  
**PCP Registration No.:** 22676  
**RF Number:** 9010

#### 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	1.50 %	Not established
Inert ingredients (trade secret and/or non-hazardous):		98.50%	
Silica, Crystalline-Quartz	140808-60-7		10 mg/m <sup>3</sup> OSHA .1 mg/m <sup>3</sup> ACGIH

#### 3. HAZARD INFORMATION

##### PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Avoid contact with skin or eyes. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

##### 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:** LD<sub>50</sub> (rat): >34,000mg/kg (HDT-highest dose level tested) (**S**)-**Methoprene**  
**Dermal:** LD<sub>50</sub> (rabbit)>2,000 mg/kg (HDT) (**S**)- **Methoprene**  
**Inhalation:** 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 considered a sensitizer (guinea pig) (Based on **(S) Methoprene**)

## 4. FIRST AID MEASURES

**Eye:** Immediately flush with copious amounts of water for at least 15 minutes. See a doctor if irritation persists

**Skin:** Wash material off with copious amounts of water and soap. Remove contaminated clothing and footwear. See a doctor if symptoms persist

**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:** Combustible solid

**Flash Point:** Not applicable

**Explosive Limits (% of Volume):** Not applicable

**Extinguishing Media:** Water, foam, CO<sub>2</sub>

**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

**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:** Avoid contact with skin or eyes.

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

## 8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:** Silica, Amorphous, Precipitated = 6 mg/m<sup>3</sup> (OSHA PEL) and 10 mg/m<sup>3</sup> (ACGIH TLV)

**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:** Dark gray to black granules with a slight hydrocarbon odor  
**Boiling Point:** Not Applicable  
**Melting Point:** Not Applicable  
**Vapor Pressure (mm Hg):** Not Applicable  
**Vapor Density (Air = 1):** Not Applicable  
**Specific Gravity:** 1.04 where H<sub>2</sub>O=1  
**Bulk Density:** Not Applicable  
**Solubility:** 1 ppm  
**Evaporation Rate:** Not Applicable  
**pH:** Not Applicable

## 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)**

**CARCINOGEN** [Silica Crystalline Quartz (Sand)] The process by which silica dust in the sand is agglomerated and coagulated by the cross-linked protein to form an essentially dust-free granule. The granule is glazed with a protein/charcoal coating that effectively seals the sand, and any concomitant silica, within the granule. Any dust that results from abrasion during handling, will consist of protein and charcoal. Exposure to silica dust from the finished product will not be expected to occur. Finished product not considered carcinogenic.

## 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

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
<b>Not regulated for transport</b>	<b>N/A</b>	<b>N/A</b>

### 15. REGULATORY INFORMATION

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

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.*