

**MATERIAL SAFETY DATA SHEET**  
**RF 2002 Block**

**Manufacturer:** Wellmark International  
**Address:** 1100 East Woodfield Road, Suite 500 Schaumburg, IL 60173  
**Emergency Phone:** 1-800-347-8272  
**Transportation Emergency Phone:** CHEMTREC: 1-800-424-9300

**1. CHEMICAL PRODUCT INFORMATION**

**Product Name:** RF 2002 Block  
**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>  
**EPA Registration No.:** 2724-492  
**RF Number:** RF2002

**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	0.01%	Not established
Inert Ingredients (non-hazardous/trade secret):		99.99%	

**3. HAZARD INFORMATION**

**PRECAUTIONARY STATEMENT**

CAUTION: Keep out of the reach of children. Causes eye and skin irritation. Avoid contact with eyes, skin or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling.

**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:** LD<sub>50</sub> (rat): >34,000 mg/kg (HDT) (Based on (S)-Methoprene)  
**Dermal:** LD<sub>50</sub> (rabbit): >2,000 mg/kg (HDT) (Based on (S)-Methoprene)  
**Inhalation:** LC<sub>50</sub> (rat) > 210mg/l air (Based on RS-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 (RS) 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 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 induce vomiting by sticking finger down throat. Repeat until vomitus is clear. Refer victim 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:** Do not allow spill to enter waterways inhabited by aquatic organisms. 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:** NA

**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

<b>Appearance and Odor:</b>	Dark Tan, Solid, Block, odor of molasses
<b>Boiling Point:</b>	N/A
<b>Melting Point:</b>	N/A
<b>Vapor Pressure (mm Hg):</b>	N/A
<b>Vapor Density (Air = 1):</b>	N/A
<b>Specific Gravity:</b>	N/A
<b>Bulk Density:</b>	2.17 g/mL @ 20°C (135 lbs/ft <sup>3</sup> )
<b>Solubility:</b>	Not determined
<b>Evaporation Rate:</b>	N/A
<b>pH:</b>	N/A

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Reactivity:</b>	Non-reactive
<b>Incompatibility w/ Other Materials:</b>	None known
<b>Decomposition Products:</b>	Carbon monoxide and carbon dioxide
<b>Unusual Fire/Explosion Hazards:</b>	Will not occur

## 11. TOXICOLOGICAL INFORMATION

### **CHRONIC TOXICITY [Specific to Ingredient(s)]**

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

### **DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]**

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)]**

S-Methoprene is not a mutagen.

## 12. ECOLOGICAL INFORMATION

### **ENVIRONMENTAL FATE [Based on RS Methoprene]**

**Hydrolysis:** T<sub>1/2</sub> > 4 weeks

**Photolysis:** T<sub>1/2</sub> < 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

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **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 under DOT.

**Freight Classification:** Insecticides N.O.I. O/T Poison.

### 15. REGULATORY INFORMATION

**CERCLA (Superfund):** Iron Sulfate - RQ 1000 lbs.

Cas # 7720-78-7

**RCRA:** Not regulated as hazardous

#### 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.*