

MATERIAL SAFETY DATA SHEET

RF2025 TUB

Manufacturer: Wellmark International
Address: 1501 East Woodfield Road, Suite 200 West, Schaumburg, IL 60173
Emergency Phone: 1-800-347-8272
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: RF2025 Tub
Chemical Name/Synonym: (S)-Methoprene: Isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate
Chemical Family: Terpenoid
Formula: C₁₉H₃₄O₃
EPA Registration No.: 2724-495
RF Number: RF2025

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	0.005%	Not established
Inert Ingredients (non-hazardous/trade secret):		99.995%	

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENTS
KEEP OUT OF REACH OF CHILDREN
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION
CAUSES EYE AND SKIN IRRITATION. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. AVOID BREATHING DUST. WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. THIS PRODUCT CONTAINS HIGH LEVELS OF COPPER. CONSUMPTION OF THIS PRODUCT BY SHEEP OR GOATS MAY RESULT IN COPPER TOXICITY.

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: >34,000 mg/kg (HDT) (Based on (S)-Methoprene)

Dermal: LD50 (rabbit): >2,000 mg/kg (HDT) (Based on (S)-Methoprene)

Inhalation: LC50 (rat)> 210mg/l air (Based on RS-Methoprene)

RF2025 Tub

OTHER TOXICOLOGICAL INFORMATION

- Skin Irritation:** Mildly irritating (rabbit)
Eye Irritation: Practically non-irritating (rabbit) (Based on (S) Methoprene)
Sensitizer: Not a sensitizer (guinea pig) (Based on (R,S) Methoprene)

4. FIRST AID MEASURES

- If in eyes:**
- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
 - Call a poison control center or doctor for treatment advice.
- If on Skin:**
- Take off contaminated clothing.
 - Rinse skin immediately with plenty of water for 15-20 minutes.
 - Call a poison control center or doctor for treatment advice.
- If swallowed:**
- Call a poison control center or doctor immediately for treatment advice.
 - Have person sip a glass of water if able to swallow.
 - Do not induce vomiting unless told to by a poison control center or doctor.
 - Do not give anything to an unconscious person.
- If inhaled:**
- Move person to fresh air.
 - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
 - Call a poison control center or doctor for further treatment advice.

Note to Physician: There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

5. FIRE FIGHTING MEASURES

NFPA Rating:	Health: 0	Fire: 0	Reactivity: 0
Flammability Class:	Solid.		
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.
- Absorbents:** Due to product form, none necessary.
- 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, 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: Use appropriate precautions to avoid contact with eyes, skin or clothing. Use good industrial hygiene practices including protective gloves and eyewear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark Tan, Solid, Block, odor of molasses

Boiling Point: N/A

Melting Point: N/A

Vapor Pressure (mm Hg): N/A

Vapor Density (Air = 1): N/A

Specific Gravity: N/A

Bulk Density: 1.3 to 1.4 g/mL @ 20°C (80 to 87 lbs/ft³)

Solubility: Not determined

Evaporation Rate: N/A

pH: N/A

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Non-reactive

Incompatibility w/ Other Materials: None known

Decomposition Products: Carbon monoxide and carbon dioxide

Unusual Fire/Explosion Hazards: 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: 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

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

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.