

# MATERIAL SAFETY DATA SHEET

## TANGO

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

### 1. CHEMICAL PRODUCT INFORMATION

**Product Name:** Tango  
**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.:** 2724-420  
**RF Number:** 329

### 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	4.9%	Not established
Inert ingredients (non-hazardous and/or trade secret)		95.1%	N/A

### 3. HAZARD INFORMATION

**PRECAUTIONARY STATEMENT**  
**CAUTION**  
**KEEP OUT OF THE REACH OF CHILDREN**  
**CAUSES MODERATE EYE IRRITATION**  
**HARMFUL IF ABSORBED THROUGH SKIN**

#### 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:** No specific hazard identified.  
**Dermal:** Harmful if absorbed through skin.  
**Inhalation:** No specific hazard identified.

#### OTHER TOXICOLOGICAL INFORMATION

**Skin Irritation:** No specific hazard identified.  
**Eye Irritation:** Avoid contact with eyes. Causes moderate eye irritation.  
**Sensitizer:** Not a sensitizer.

#### 4. FIRST AID MEASURES

**Eye:** 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. Call a poison control center or doctor for treatment advice.

**Skin:** Remove contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**Note to Physician:** Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

**NFPA Rating:**    **Health:** 1                      **Fire:** 0                      **Reactivity:** 0

**Flammability Class:** N/A.

**Flash Point:** Does not flash.

**Explosive Limits (% of Volume):** None.

**Extinguishing Media:** Water, foam, CO2.

**Special Protective Equipment:** Firefighters should wear protective clothing and 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.

#### 6. ACCIDENTAL RELEASE MEASURES

**Steps to be taken:** In case of leakage or spill, soak up with absorbent material. Place in a container for disposal.

**Absorbents:** Clay granules, sawdust, dirt or equivalent.

**Incompatibles:** None.

#### 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

**Storage:** Store in a cool, dry place, away from other pesticides, food and feed.

#### 8. EXPOSURE CONTROL / PERSONAL MEASURES

**Exposure Limits:** Not established.

**Ventilation:** Use with adequate ventilation.

**Personal Protective Equipment:** Long sleeved shirt and long pants, shoes plus socks, chemical resistant gloves and safety glasses with side shields are recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance and Odor:</b>	Creamy, yellow liquid with slight hydrocarbon odor.
<b>Boiling Point:</b>	100 C.
<b>Melting Point:</b>	N/A.
<b>Vapor Pressure (mm Hg):</b>	17.5 mm Hg @ 25C (water phase).
<b>Vapor Density (Air = 1):</b>	0.6 (water phase).
<b>Specific Gravity:</b>	1.0 - 1.02.
<b>Bulk Density:</b>	N/A.
<b>Solubility:</b>	Disperses in water.
<b>Evaporation Rate:</b>	Approximately 0.8 (water phase).
<b>pH:</b>	6.2-6.8.

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable.
<b>Reactivity:</b>	Non-reactive.
<b>Incompatibility w/ Other Materials:</b>	None.
<b>Decomposition Products:</b>	None.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### **ACUTE TOXICITY [Based on (S)-Methoprene Technical]**

Acute oral toxicity: LD50 >34,000 mg/kg  
Acute dermal toxicity: LD50 >2000 mg/kg  
Acute inhalation: >5.19 mg/L  
Skin irritation: Non-irritating  
Eye irritation: Moderate eye irritant  
Not a dermal sensitizer

### **CHRONIC TOXICITY [Based on (RS)-Methoprene Technical]**

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

### **DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Based on (RS)-Methoprene Technical]**

**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 2500 ppm.

### **MUTAGENICITY [Based on (RS)-Methoprene Technical]**

**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:** fish:LC50 (trout): 760 ppb, (bluegill): > 370 ppb ;  
**aquatic invertebrates:**LC50 (Daphnia): 360 ppb

Do not contaminate water when disposing of equipment washwaters or rinsate.

## 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal. **Pesticide Disposal:** Waste resulting from this product may be disposed of on site or at an approved waste management facility. **Container Disposal:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, 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 U.S. D.O.T.

**Freight Classification:** Insecticides, NOI other than poison in boxes or drums. 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.*

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