



Date Issued: January 1999
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MATERIAL SAFETY DATA SHEET Pharorid Ant Growth Regulator

Manufacturer: Wellmark International
Address: 1000 Tower Lane, Suite 245 Bensenville, IL 60106
Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Pharorid Ant Growth Regulator
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.: 2724-420
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 (nonhazardous and/or trade secret)		95.1%	N/A

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Hazards to Humans: Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

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: LD₅₀ (rat): >5000 mg/kg (highest dose tested) (HDT) (Based on (S)-Methoprene)

Dermal: LD₅₀ (rabbit): >2000 mg/kg (highest dose tested) (HDT) (Based on (S)-Methoprene)

Inhalation: LC₅₀ (rat): >5.2 mg/L air (4 hour study); (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 plenty of water. See a physician if irritation persists.
- Skin:** Wash material off with soap and water. Remove contaminated clothing and footwear. See a physician if symptoms persist.
- Ingestion:** Drink 1-2 glasses of water and try to induce vomiting. Seek medical attention. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove victim to fresh air. See a physician if cough or other respiratory symptoms develop
- Note to Physician:** Treat symptomatically

5. FIRE FIGHTING MEASURES

- NFPA Rating:** **Health: 2** **Fire: 0** **Reactivity: 0**
- Flammability Class:** Non-combustible liquid
- Flash Point:** Does not flash
- Explosive Limits (% of Volume):** None
- 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:** 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 or clothing. Wash thoroughly with soap and water after handling.
- Storage:** Store in a cool, dry place, away from children

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 expected, it is recommended to wear a MSHA/NIOSH approved organic vapor/pesticide respirator, impervious gloves, chemical goggles or safety glasses with side shields.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Creamy, yellow liquid with slight hydrocarbon odor.

Boiling Point: 100 C

Melting Point: N/A

Vapor Pressure (mm Hg): 17.5 mm Hg @ 25C (water phase)

Vapor Density (Air = 1): 0.6 (water phase)

Specific Gravity: 1.0 - 1.02

Bulk Density: 8.6 lbs/gal.

Solubility: Disperses in water

Evaporation Rate: Approximately 0.8 (water phase)

pH: 6.4 - 6.8

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Not reactive

**Incompatibility w/ Other
Materials:** None

Decomposition Products: None

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-carcinogen effects in an 18-month mouse study was 250ppm..

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 [Based on RS-Methoprene]

Methoprene is not a mutagenic compound.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Active Ingredients Only]

Hydrolysis: T1/2 > 4 weeks

Photolysis: T1/2 < 10 hours

Soil half life: ~ 10 days

Water solubility: < 2 ppm

ECOTOXICITY [Active Ingredients Only]

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

13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. Wrap and put in trash. Larger quantities of unused product should be disposed of at an approved waste disposal facility.

14. TRANSPORT INFORMATION

DOT49CFR Description: Not regulated as hazardous by U.S. DOT

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.