



Date Issued: October, 1998
Supersedes: New

MATERIAL SAFETY DATA SHEET
Gentrol Aerosol

Manufacturer: Wellmark International
Address: 1000 Tower Lane, Suite 245 Bensenville, IL 60106
Emergency Phone: 1-800-950-4783
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Gentrol Aerosol
Chemical Name/Synonym: (S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate
Chemical Family: Isoprenoid
Formula: C₁₇ H₃₀ O₂
EPA Registration No.: 2724-484
RF Number: 9707

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
(S)-Hydroprene: (Ethyl(2E,4E,7S)-3,7,11-trimethyl-2,4-dodecadienoate)	65733-18-8	0.36%	
Inert ingredients (non-hazardous and/or trade secret):		79.64%	
Propane	74-98-6	20.00	1800 mg/m3 (OSHA)Asphyxiant (ACGIH)

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT

Caution: Keep out of the reach of children. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Intoxication not reported. Probable symptoms of over exposure would be nausea, diarrhea, vomiting, or G.I. tract irritation.

Dermal/Eye: Yes **Oral:** No **Inhalation:** Yes

PRIMARY ROUTE OF ENTRY

ACUTE TOXICITY
Oral: LD₅₀ (rat): >34,000 mg/kg (highest dose level tested)
Based on (S-Hydroprene).
Dermal: LD₅₀ (rabbit): >5,000 mg/kg (highest dose level tested)
(Based on (S-Hydroprene).

Inhalation: LC₅₀ (rat): >5mg/l (highest dose level tested)

Based on (S-Hydroprene).

OTHER TOXICOLOGICAL INFORMATION: Based on S-Hydroprene

Skin Irritation: Non-irritating (rabbit)

Eye Irritation: Non-irritating (rabbit)

Sensitizer: Not considered a sensitizer.

4. FIRST AID MEASURES

Eye: Flush eyes with plenty of water. If irritation persists, call a physician.

Skin: Wash thoroughly with plenty of soap and water. Get medical attention.

Ingestion: Call a physician or poison control center immediately. Do not induce vomiting.

Inhalation: Remove to clear air area.

Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 1** **Fire: 4** **Reactivity: 0**

Flammability Class: Level I Aerosol

Flash Point: Unknown

Explosive Limits (% of Volume): Lower: 2, Upper: 9

Extinguishing Media: Water fog, 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 water-ways or sewers.

Combustion Products: Carbonoxide

Unusual Fire/Explosion Hazards: Contents under pressure

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken: Do not allow spill to enter drainage systems or waterways. Ventilate area. Absorb spill with absorbent material, and place in a container for disposal.

Absorbents: Clay granules, sawdust, dirt or equivalent.

Incompatibles: Strong acids, alkalies, strong oxidizers

7. HANDLING AND STORAGE

Handling: Avoid breathing mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. When used in commercial food processing, storage, preparation or serving areas, or in the house, all processing surfaces and utensils should be covered during treatment, or thoroughly washed before use. Cover exposed food. Do not apply while processing, preparation or serving is underway. Do not smoke while using product. Do not use this product in or on electrical equipment, due to possibility of shock hazard.

Storage: Do not contaminate water, food, or feed by storage. Store in cool area away from children. Do not use or store near heat or open flame. Contents under pressure. Do not puncture or incinerate. Exposure to temperatures above 130F may cause bursting.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: Propane = 1800 mg/m³ (OSHA PEL), Asphyxiant (ACGIH TLV)

Ventilation: Use adequate ventilation

Personal Protective Equipment: If prolonged exposure is anticipated, it is recommended for users and handlers to wear a MSHA/NIOSH approved pesticide respirator, impervious gloves, goggles and other appropriate clothing to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Yellowish white liquid (under pressure)

Boiling Point: -42C to 200C

Melting Point: Not applicable

Vapor Pressure (mm Hg): 40 psig

Vapor Density (Air = 1): Unknown

Specific Gravity: 0.83 (H₂O=1)

Bulk Density: Not applicable

Solubility: Appreciable

Evaporation Rate: Unknown

pH: 9.0

10. STABILITY AND REACTIVITY

Stability: Stable

Reactivity: Non reactive

Incompatibility w/ Other Materials: Strong acids, alkalies, strong oxidizers

Decomposition Products: Carbon oxides

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

In a 90-day subchronic feeding study in rats, the NOEL was 50 mg/kg/day. Changes in body weight and organ weights were observed at higher dose levels. Maximum tolerated dose (MTD) was suggested to be between 250 and 1,000 mg/kg/day. No immunotoxic effects were observed in a study in mice when (S)-Hydroprene was fed (diet) at dose levels up to and including 1,200 mg/kg/day, continuously for 30 days.

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

Parental reproductive performance in rats remained unaffected up to a dose level of 7,500 ppm, when evaluated in a 2-generation reproduction/toxicity study. Histologically, all females of 7,500 ppm dose group had cytoplasmic vacuolation in the ovaries and regression of corpora lutea, but without affecting reproductive performance. The NOEL for pup development was 1,500 ppm. No teratogenic or fetotoxic effects were observed in rats when pregnant animals were exposed (gavage) to (S)-Hydroprene at levels up to 1,000 mg/kg/day (highest dose tested) during days 6 to 15 of gestation. NOEL for maternal toxicity was 1,000 mg/kg/day. Minor skeletal anomalies observed at lower dose levels were absent in the high dose animals, indicating an observation unrelated to the dose treatment.

MUTAGENICITY [Specific to Active Ingredient(s)]

(S)-Hydroprene is not a mutagen.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE [Based on(S)-Hydroprene]

Hydrolysis: Not available

Photolysis: Not available

Soil half life: Not available

Water solubility: < 2 ppm emulsifies in water

ECOTOXICITY [Based on (S)-Hydroprene]

Acute Toxicity: Fish: Not available; Aquatic invertebrates: Not available

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food, or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Container Disposal: Sizes \leq 1 gallon: Wrap container and pin trash collection. Sizes \geq 1 gallon: Empty container may be offered for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke

14. TRANSPORT INFORMATION

DOT49CFR Description: Consumer Commodity ORM-D

Freight Classification: Spray Insecticides.

15. REGULATORY INFORMATION

CERCLA (Superfund): N/A

RCRA: Regulated due to ignitability

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes (irritation)

Delayed Health: No

Fire: Yes

Sudden Pressure: Yes

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.