

MATERIAL SAFETY DATA SHEET
Gentrol Aerosol

Manufacturer: Wellmark International
Address: 1501 East Woodfield Road, Suite 200-West Schaumburg, IL 60173
Emergency Phone: 1-800-248-7763
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 STATEMENTS
KEEP OUT OF REACH OF CHILDREN
CAUTION
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Harmful if inhaled or absorbed through skin. Avoid breathing spray mist.
Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

PRIMARY ROUTE OF ENTRY **Dermal/Eye:** Yes. **Oral:** No. **Inhalation:** Yes.

ACUTE TOXICITY **Oral:** No specific hazard identified.

Dermal: No specific hazard identified.
Inhalation: No specific hazard identified.

OTHER TOXICOLOGICAL INFORMATION:

Skin Irritation: Causes mild skin irritation.

Eye Irritation: Causes moderate eye irritation.

Sensitizer: Not considered a sensitizer.

4. FIRST AID MEASURES

Call a poison control center or doctor immediately for treatment advice.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

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, and then continue rinsing eye.

Inhalation: Move individual to fresh air. If not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.

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

5. FIRE FIGHTING MEASURES

NFPA Rating: **Health: 1.** **Fire: 2.** **Reactivity: 0.**

Flammability Class: Level I Aerosol.

Flash Point/Flame Extension: > 90° C / no flame extension.

Explosive Limits (% of Volume): Not available.

Extinguishing Media: Dry chemical, 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 monoxide.

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 130° F may cause bursting.

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8. EXPOSURE CONTROL / PERSONAL MEASURES

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

Ventilation: Use adequate ventilation.

Personal Protective Equipment: If ventilation is inadequate to maintain airborne concentrations above recommended exposure limits, respiratory protection may be required. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. At a minimum, safety glasses or goggles and chemical resistant gloves are recommended.

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: 7.2.

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

ACUTE TOXICITY [Specific to Active Ingredient]

Acute oral toxicity: LD₅₀ >34,600 mg/kg

Acute dermal toxicity: LD₅₀ >5000 mg/kg

Acute inhalation toxicity: 4-Hour LC₅₀ >5.5 mg/L

Skin irritation: Not irritating

Eye irritation: Not irritating

Skin Sensitizer: Not a sensitizer

SUBCHRONIC TOXICITY [Specific to Active Ingredient]

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. Liver and ovaries were identified as target organs.

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.

CHRONIC TOXICITY/CARCINOGENICITY [Specific to Active Ingredient]

A chronic toxicity/carcinogenicity study in rats identified ovaries and the thyroid as target organs. An increased incidence of benign thyroid tumors was present in male rats only at the highest dose tested. Increased weights and macroscopic and microscopic changes in the ovaries were observed at the highest doses. NOEL for males was 1,000 ppm and for females 100 ppm.

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient]

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, 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). NOEL for maternal toxicity was 1,000 mg/kg/day. .

MUTAGENICITY [Specific to Active Ingredient]

(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. Waste resulting from the use of this product may be disposed of at an approved chemical waste disposal facility in compliance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT49CFR Description: Consumer Commodity ORM-D.

Freight Classification: Insecticides NMFC 102120 Class 60.

15. REGULATORY INFORMATION

CERCLA (Superfund): N/A.

RCRA: Not regulated.

SARA 311/312 HAZARD CATEGORIES

Immediate Health: Yes.

Delayed Health: Yes.

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.