

MATERIAL SAFETY DATA SHEET
Extinguish™ Plus

Manufacturer: Wellmark International
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Emergency Phone: 1-800-248-7763
Transportation Emergency Phone: CHEMTREC: 1-800-424-9300

1. CHEMICAL PRODUCT INFORMATION

Product Name: Extinguish™ Plus
Chemical Name/Synonym: (S)-Methoprene; isopropyl (2E,4E,7S)-11-methoxy-3,7,11-trimethyl-2,4-dodecadienoate
Hydramethylnon; Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone [3-[4(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propenylidene]hydrazone
Chemical Family: Terpenoid / Amidinohydrazone
Formula: C₁₉ H₃₄ O₃ / C₂₅H₂₄N₄F₆
EPA Registration No.: 2724-496
RF Number: 2012

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component (chemical, common name)</u>	<u>CAS Number</u>	<u>Weight</u>	<u>Tolerance</u>
Hydramethylnon: Tetrahydro-5,5-dimethyl-2(1H)-pyrimidinone [3-[4(trifluoromethyl)phenyl]-1-[2-[4-(trifluoromethyl)phenyl]ethenyl]-2-propenylidene]hydrazone	067485-29-4	0.365%	1.4 MG/M ³ (TWA)
(S)- Methoprene: Isopropyl (2E,4E,7S)-11-Methoxy-3,7,11-trimethyl-2,4-dodecadienoate	65733-16-6	0.250%	
Inert Ingredients		99.385%	
Section 313 Toxic Chemical Reference: Hydramethylnon American Cyanamid – 1986			

3. HAZARD INFORMATION

PRECAUTIONARY STATEMENT
CAUTION!
KEEP OUT OF THE REACH OF CHILDREN
Hazards to Humans and Domestic Animals: May be harmful if swallowed. Avoid contact with skin, and clothing. Wash hands thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some people.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

ACUTE TOXICITY	Oral:	LD50 (rat): > 34,600 mg/kg bw (highest dose level tested) (Based on S-Methoprene).
	Dermal:	LD50 (rabbit) >5,000 mg/kg bw (Based on S-Methoprene).
	Inhalation:	4-hour LC50 (rat): 5.19 mg/L air (Based on S-Methoprene) .

OTHER TOXICOLOGICAL INFORMATION

Skin Irritation:	Slightly irritating to the skin (based on technical active ingredient).
Eye Irritation:	Moderate eye irritant (based on technical active ingredient).
Sensitizer:	Hydramethylnon is 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 eye. Call a poison control center or doctor for treatment advice.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 minutes. Get medical attention if irritation persists.
Ingestion:	Drink two glasses of water; induce vomiting if the person is conscious. Seek medical attention.
Inhalation:	Remove to fresh air.
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: 1	Fire: 1	Reactivity: 0
Flammability Class:	Combustible solid.		
Flash Point:	Does not flash (not a liquid).		
Explosive Limits (% of Volume):	N/A.		
Extinguishing Media:	Use water, foam, carbon dioxide, or dry chemical.		
Special Protective Equipment:	Wear self contained, positive pressure breathing apparatus and full fire fighting protective clothing.		
Fire Fighting Procedures:	Avoid heavy hose streams; airborne dust may create an explosion hazard. Do not allow run-off to enter waterways.		
Combustion Products:	Thermal decomposition may produce hydrogen fluoride and oxides of carbon and nitrogen.		
Unusual Fire/Explosion Hazards:	Class 1 dust exposure hazard.		

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken:	Shovel or sweep up material and place in a container for disposal. Do not allow spill to enter waterways. Keep all sources of ignition away from the spill, and avoid creating dusty conditions when handling this material. If heavy dusting cannot be avoided, ground all equipment.
Absorbents:	None necessary due to product form and packaging.
Incompatibles:	Not Available.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. When engineering control is not feasible and employee exposure exceeds 1.4 mg/m,³ wear a NIOSH approved pesticide respirator. When there is risk of exposure to eyes, wear dust proof goggles, overalls, and gloves.

Storage: Store in a cool, dry, secure place and keep container tightly closed. Store away from pets. Do not contaminate water, food or feed by storage. This product is formulated in oil bait. Prolonged exposure to air may turn oil rancid and reduce the attractiveness of the bait. Use within 3 months after opening.

8. EXPOSURE CONTROL / PERSONAL MEASURES

Exposure Limits: OSHA PEL Total dust 15/ms.

Ventilation: Use with adequate ventilation during formulation process.

Personal Protective Equipment: Under ordinary use conditions, no special protection is required. If prolonged exposure is expected or adequate ventilation during formulation process can not be maintained, 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: Yellow-tan, free flowing granules having an odor characteristic of vegetable oil.

Boiling Point: N/A.

Melting Point: N/A.

Vapor Pressure (mm Hg): N/A.

Vapor Density (Air = 1): N/A.

Specific Gravity: 0.31 gm/cc (19 lbs. per cubic foot).

Solubility: Insoluble.

Evaporation Rate: N/A.

pH: N/A.

10. STABILITY AND REACTIVITY

Stability: Stable.

Reactivity: Non-reactive.

Incompatibility w/ Other Materials: Not available.

Decomposition Products: Thermal decomposition may produce hydrogen fluoride and oxides of carbon and nitrogen.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

A chronic toxicity study in rats with hydramethylnon did not demonstrate any compound-related clinical effects other than organ weight changes. The NOEL was determined to be 50 ppm.

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

In a 2-generation developmental toxicity study with hydramethylnon in Sprague-Dawley rats, the male rat NOEL was determined to be 75 ppm based on male reproductive effects. No reproductive or developmental effects are expected at exposure levels associated with the use of this product.

MUTAGENICITY [Specific to Active Ingredient(s)]

Hydramethylnon has not been shown to be a mutagenic or carcinogenic compound.

12. ECOLOGICAL INFORMATION**ENVIRONMENTAL FATE [Active Ingredients Only]**

Hydrolysis: Unknown.

Photolysis: Unknown.

Soil half life: Unknown.

Water solubility: Insoluble.

ECOTOXICITY [Active Ingredients Only]

Acute Toxicity: Toxic to fish. Do not apply directly to water or areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing equipment wash waters. Do not apply when weather conditions favor drift from target areas.

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.

Freight Classification: Insecticides, N.O.I. OTHER THAN POISON NMFC I-102120 CL. 60.

15. REGULATORY INFORMATION

CERCLA (Superfund): Not Regulated.

RCRA: Not Regulated.

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.