

[Return to MSDS List](#) , [Previous MSDS](#) , [Next MSDS](#)

# MATERIAL SAFETY DATA SHEET

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## SECTION 1. Product and Company Identification MOSQUITO HALT REPELLENT SPRAY FOR HORSES

**Product Code:** 270-328 MH  
**Product Name:** MOSQUITO HALT REPELLENT SPRAY FOR HORSES  
**Manufacturer Information**  
**Company Name:** Distributed by:  
 Farnam Companies, Inc.  
 301 West Osborn Road  
 Phoenix, AZ  
**Emergency Contact:** CHEMTREC (800)424-9300  
**Alternate Emergency Contact:** District of Columbia (202)483-0414  
**Information:** Farnam Companies, Inc. (800)234-2269  
**Additional Identity Information**  
 1-qt 3003441  
 1-gal 3003331

## SECTION 2. Composition/Information on Ingredients MOSQUITO HALT REPELLENT SPRAY FOR HORSES

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
Permethrin	52645-53-1	0.2 %	No data.	No data.
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2-methyl-4-oxo-3-(2-propynyl)-2	23031-36-9	0.133 %	No data.	No data.
Piperonyl butoxide	51-03-6	0.5 %	No data.	No data.
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	2.0 %	No data.	No data.
Dipropyl isocinchomeronate	136-45-8	1.0 %	No data.	No data.
Isopropyl alcohol	67-63-0	50.0 -90.0 %	No data.	No data.

## SECTION 3. Hazards Identification MOSQUITO HALT REPELLENT SPRAY FOR HORSES

### Emergency Overview

**KEEP OUT OF REACH OF CHILDREN**

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear appropriate eyewear (such as goggles or face shield).

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**Route(s) of Entry:** Inhalation? Yes , Skin? Yes , Eyes? Yes , Ingestion? Yes

**Potential Health Effects (Acute and Chronic)**

No data available.

**Recommended Exposure Limits**

Pyrethrins=5 mg/m<sup>3</sup> Iso alcohol=400ppm

**LD 50 / LC 50**

LD50(rat):5.3g/kg (rabbit):>2.0g/kg

**Signs and Symptoms Of Exposure**

Symptoms associated with allergies, hayfever, i.e., itchy, runny eyes, stuffy/runny nose, chest discomfort, possible hives. In addition, alcohol may cause ataxia and dizziness.

<b>SECTION 4. First Aid Measures</b> <b>MOSQUITO HALT REPELLENT SPRAY FOR HORSES</b>
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**Emergency and First Aid Procedures**

**IF IN EYES:** 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.

**IF ON SKIN OR CLOTHING:** Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

<b>SECTION 5. Fire Fighting Measures</b> <b>MOSQUITO HALT REPELLENT SPRAY FOR HORSES</b>
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**Flash Pt:** 56.00 F Method Used: TAG Closed Cup

**Explosive Limits:** LEL: No data. UEL: No data.

**Autoignition Pt:** NA

**Fire Fighting Instructions**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH approved or equivalent and full protective gear.

**Flammable Properties and Hazards**

Flammable Liquid. Isopropanol Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

**Hazardous Combustion Products**

None known

**Extinguishing Media**

Dry chemical and foam. Carbon dioxide and water spray may be ineffective.

**Unsuitable Extinguishing Media**

None known

**SECTION 6. Accidental Release Measures**  
**MOSQUITO HALT REPELLENT SPRAY FOR HORSES**

**Steps To Be Taken In Case Material Is Released Or Spilled**

Absorb spill with inert material (e.g. dry sand, clay granules, sawdust, or earth), then place in a chemical waste container.

**SECTION 7. Handling and Storage**  
**MOSQUITO HALT REPELLENT SPRAY FOR HORSES**

**Hazard Label Information:**

Keep away from heat or open flame    Toxic to fish    Do not contaminate water.    Do not use/store near heat/open flame

**Precautions To Be Taken in Handling**

Do not apply directly to water. Do not apply where runoff is likely to occur. Do not apply to painted or finished wood surfaces.

**Precautions To Be Taken in Storing**

Store in original container in a cool, dry place, inaccessible to children and pets. If a leaky container must be contained within another, mark the outer container to identify the contents. Do not store near heat or open flame. Store pesticides away from food, pet food, seed, fertilizers, and veterinary supplies.

**Other Precautions**

Do not get in eyes, on skin or on clothing. Avoid breathing vapors. Causes substantial but temporary eye injury. Avoid contact with eyes or mucous membranes. Avoid treatment of nursing puppies and foals under 6 weeks of age unless prescribed by a veterinarian.

**SECTION 8. Exposure Controls/Personal Protection**  
**MOSQUITO HALT REPELLENT SPRAY FOR HORSES**

**Protective Equipment Summary - Hazard Label Information:**

Goggles, face shield, safety glasses    Rubber or neoprene gloves

**Respiratory Equipment (Specify Type)**

Use only with adequate ventilation.

**Eye Protection**

Goggles, face shield, safety glasses

**Protective Gloves**

Rubber or neoprene gloves

**Other Protective Clothing**

Clothes to prevent skin contact

**Engineering Controls (Ventilation etc.)**

Use only with adequate ventilation.

**Work/Hygienic/Maintenance Practices**

Eye wash stations should be available. Wash hands before eating, smoking, or using restroom.

**SECTION 9. Physical and Chemical Properties**  
**MOSQUITO HALT REPELLENT SPRAY FOR HORSES**

**Physical States:**                             Gas     Liquid     Solid

<b>Melting Point:</b>	NA
<b>Boiling Point:</b>	180.00 F
<b>Autoignition Pt:</b>	NA
<b>Flash Pt:</b>	56.00 F Method Used: TAG Closed Cup
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Specific Gravity (Water = 1):</b>	.809N.A.
<b>Density:</b>	NA
<b>Bulk density:</b>	NA
<b>Vapor Pressure (vs. Air or mm Hg):</b>	N.A.
<b>Vapor Density (vs. Air = 1):</b>	N.A.
<b>Evaporation Rate (vs Butyl Acetate=1):</b>	1.26
<b>Solubility in Water:</b>	80%
<b>Percent Volatile:</b>	N.A.
<b>Saturated Vapor Concentration:</b>	NA
<b>Viscosity:</b>	NA
<b>Heat Value:</b>	NA
<b>Particle Size:</b>	NA
<b>Corrosion Rate:</b>	NA
<b>pH:</b>	6.25 @ 5%

**Appearance and Odor**

Clear, yellow liquid with slight alcohol odor and perfume added.

<b>SECTION 10. Stability and Reactivity</b> <b>MOSQUITO HALT REPELLENT SPRAY FOR HORSES</b>
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**Stability:** Unstable [  ] Stable [  ]

**Conditions To Avoid - Instability**

None known

**Incompatibility - Materials To Avoid**

None known

**Hazardous Decomposition Or Byproducts**

In fire conditions, CO, CO<sub>2</sub>, and NO<sub>x</sub> gases may be produced. Sulfur oxides, various aldehydes and ketones may also be byproducts of decomposition.

**Hazardous Polymerization:** Will occur [  ] Will not occur [  ]

**Conditions To Avoid - Hazardous Polymerization**

Product will not undergo polymerization.

<b>SECTION 11. Toxicological Information</b> <b>MOSQUITO HALT REPELLENT SPRAY FOR HORSES</b>
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Not available

**Carcinogenicity/Other Information**

A 2-year bioassay of technical Piperonyl Butoxide for possible carcinogenicity was conducted by administering dietary levels of 5,000 and 10,000 ppm to rats and mice. In the female rats, lymphomas

occurred at incidences that were dose related. In the male mice, adenomas of the lacrimal gland occurred at incidences that were dose related but were not significantly higher than that in the control group. Thus, the occurrence of this tumor in the male mice was not clearly related to the administration of Piperonyl Butoxide.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
Permethrin	52645-53-1	n.a.	n.a.	n.a.	n.a.
Cyclopropanecarboxylic acid, 2,2-dimethyl-3-(2-methyl-1-propenyl)-, 2-methyl-4-oxo-3-(2-propynyl)-2	23031-36-9	n.a.	n.a.	n.a.	n.a.
Piperonyl butoxide	51-03-6	n.a.	n.a.	n.a.	n.a.
N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	n.a.	n.a.	n.a.	n.a.
Dipropyl isocinchomeronate	136-45-8	n.a.	n.a.	n.a.	n.a.
Isopropyl alcohol	67-63-0	n.a.	n.a.	A4	n.a.

**Carcinogenicity:** NTP? No IARC Monographs? No OSHA Regulated? No

### SECTION 12. Ecological Information MOSQUITO HALT REPELLENT SPRAY FOR HORSES

This product is toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

### SECTION 13. Disposal Considerations MOSQUITO HALT REPELLENT SPRAY FOR HORSES

#### Waste Disposal Method

Dispose of according to local, State, and Federal regulations. Nonrefillable container. Do not reuse or refill this container. If Empty: Place in trash or offer for recycling if available. If Partly Filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

### SECTION 14. Transport Information MOSQUITO HALT REPELLENT SPRAY FOR HORSES

#### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** No data available.

**DOT Hazard Label:** Quart: ORM-D; Gallon; UN-1993(Isopropanol) Class 3 Flam Liquid

### SECTION 15. Regulatory Information MOSQUITO HALT REPELLENT SPRAY FOR HORSES

No data available.

### SECTION 16. Other Information

## MOSQUITO HALT REPELLENT SPRAY FOR HORSES

### DOT Information:

Quarts, Consumer Commodity ORM-D

Gallons, UN-1993 (Isopropanol), Class 3 Flammable Liquid, Pkg Group II

### Company Policy or Disclaimer

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification.

<p style="font-size: small;">Flammability: 3 Health: 0 Instability: 0 Special Hazard: Blank</p>	<p>Minimal: 0 Slight: 1 Moderate: 2 Serious: 3 Extreme: 4</p>	<p><b>Generated</b> 07/02/2010 <b>Revision</b> 05/21/2010 <b>Supercedes Revision</b> 08/27/2007 <b>Date Created</b> 03/20/2003</p>
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