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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/m³ 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.

SECTION 4. First Aid Measures MOSQUITO HALT REPELLENT SPRAY FOR HORSES

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.

SECTION 5. Fire Fighting Measures MOSQUITO HALT REPELLENT SPRAY FOR HORSES

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

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

Appearance and Odor

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

SECTION 10. Stability and Reactivity MOSQUITO HALT REPELLENT SPRAY FOR HORSES
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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, CO₂, and NO_x 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.

SECTION 11. Toxicological Information MOSQUITO HALT REPELLENT SPRAY FOR HORSES

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>Generated 07/02/2010 Revision 05/21/2010 Supercedes Revision 08/27/2007 Date Created 03/20/2003</p>
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