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MATERIAL SAFETY DATA SHEET

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SECTION 1. Product and Company Identification BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Product Code: 2724-485-270/D
Product Name: BIO SPOT SHAMPOO FOR DOGS & PUPPIES
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
Preparer Name: SFaith/Regulatory
Additional Identity Information
 12-oz 3006087

SECTION 2. Composition/Information on Ingredients BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-	65733-16-6	0.1 %	No data.	No data.
Pyrethrins and Pyrethroids	8003-34-7	0.15 %	5 mg/m3	5 mg/m3
Piperonyl butoxide	51-03-6	1.5 %	No data.	No data.

SECTION 3. Hazards Identification BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Emergency Overview

KEEP OUT OF REACH OF CHILDREN

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

Route(s) of Entry: Inhalation? N.A. , Skin? Yes , Eyes? Yes , Ingestion? Yes

Potential Health Effects (Acute and Chronic)

Oral: LD50 (rat): >34,000 mg/kg (highest dose tested)(Based (S)-Methoprene))

Dermal: LD50(rabbit) >2,000 mg/kg (highest dose level tested)(Based on (S)-Methoprene

Inhalation: LD50 (rat): >5.19 mg/L (Based (S)-Methoprene))

Signs and Symptoms Of Exposure

Usual signs of overexposure are those associated with allergies, i.e., sneezing, runny nose, stuffiness, watery eyes, in rare cases asthma-like symptoms.

SECTION 4. First Aid Measures BIO SPOT SHAMPOO FOR DOGS & PUPPIES

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.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

IF INGESTED: Call a poison control center or doctor immediately for treatment advice. Drink promptly a large quantity of milk, egg, whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

IF INHALED: Remove to clear air area.

Note to Physician

Treat symptomatically.

SECTION 5. Fire Fighting Measures BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Flash Pt: No data.

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

Fire Fighting Instructions

Normal procedures. Do not allow fire fighting water to escape into water-ways or sewers. Firefighters should wear full protective clothing including self-contained breathing apparatus.

Flammable Properties and Hazards

None known.

Hazardous Combustion Products

None known.

Extinguishing Media

CO₂, foam, dry chemical

Unsuitable Extinguishing Media

None known.

SECTION 6. Accidental Release Measures BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Steps To Be Taken In Case Material Is Released Or Spilled

Do not allow spill to enter waterways inhabited by aquatic organisms. Soak up spill with absorbent material (clay granules, sawdust, dirt or equivalent) and place in container for disposal.

SECTION 7. Handling and Storage BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Precautions To Be Taken in Handling

Avoid contact with eyes and skin. Wash thoroughly with soap and water after handling.

Precautions To Be Taken in Storing

Store in a cool place. Do not contaminate water, food or feed by storage. Keep from freezing.

SECTION 8. Exposure Controls/Personal Protection BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Respiratory Equipment (Specify Type)

If prolonged exposure is anticipated, it is recommended for users and handlers to wear a MSHA/NIOSH approved organic vapor/pesticide respirator.

Eye Protection

No data available.

Protective Gloves

No data available.

Other Protective Clothing

If prolonged exposure is anticipated, it is recommended for users and handlers to wear impervious gloves, goggles and other appropriate clothing to prevent skin contact.

Engineering Controls (Ventilation etc.)

Natural ventilation will suffice.

SECTION 9. Physical and Chemical Properties BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	NA		
Boiling Point:	NA		
Autoignition Pt:	No data.		
Flash Pt:	No data.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (Water = 1):	1.024 at 20.0 C		
Density:	8.5 lbs LB/GA		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate (vs Butyl Acetate=1):	No data.		
Solubility in Water:	Miscible		
Percent Volatile:	No data.		
Heat Value:	No data.		
Particle Size:	No data.		
Corrosion Rate:	No data.		
pH:	5.9		

Appearance and Odor

Pale green, pearlescent, viscous liquid with odor similar to baby powder.

SECTION 10. Stability and Reactivity BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Stability: Unstable [] Stable []

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Strong oxidizers, strong acids.

Hazardous Decomposition Or Byproducts

No data available.

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

Conditions To Avoid - Hazardous Polymerization

No data available.

SECTION 11. Toxicological Information BIO SPOT SHAMPOO FOR DOGS & PUPPIES
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Skin Irritation: Moderately Irritating

Eye Irritation: Mildly Irritating

Sensitizer: Not a dermal sensitizer

Chronic Toxicological Effects

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

[(RS)-Methoprene Technical] Methoprene is not considered as an oncogenic compound. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm.

[Pyrethrins] In a 2-year feeding study, rats were fed pyrethrum at dietary levels of 10, 50 and 250 mg/kg/day. The highest level had no significant effect on growth or survival. Slight though definite liver damage was observed, especially at higher dosage levels. In a 90-day feeding study, dogs that were fed pyrethrins at a dietary level of 5,000 ppm showed tremors, ataxia, labored respiration and salivation during the first month of exposure.

[Piperonyl Butoxide] In rats at a dietary level of 10,000 ppm of Piperonyl Butoxide, (dosage of 650 mg/kg/day), there was a moderate reduction of weight gain, increased relative weight of the kidneys and increased relative weight of the liver. A 2-year bioassay of technical Piperonyl Butoxide for possible carcinogenesis was conducted by administering dietary levels of 5000 and 10,000 ppm to rats and mice. In the female, 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.

Carcinogenicity/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-	65733-16-6	n.a.	n.a.	n.a.	n.a.

Pyrethrins and Pyrethroids	8003-34-7	n.a.	n.a.	A4	n.a.
Piperonyl butoxide	51-03-6	n.a.	n.a.	n.a.	n.a.

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

Additional Toxicological Information

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

[(RS)-Methoprene Technical] is not a teratogenic compound. The NOEL for maternal and embryotoxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 500 ppm.

[Pyrethrins] was not found to be genotoxic and did not damage DNA in any study conducted

MUTAGENICITY [Specific to Active Ingredient(s)]

[(RS)-Methoprene Technical] Methoprene is not a mutagenic compound.

[Pyrethrins] was not found to be genotoxic and did not damage DNA in any study conducted.

[Piperonyl Butoxide] Piperonyl Butoxide is not considered to be a mutagen.

SECTION 12. Ecological Information BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Pyrethrins and Piperonyl Butoxide are toxic to fish.

SECTION 13. Disposal Considerations BIO SPOT SHAMPOO FOR DOGS & PUPPIES

Waste Disposal Method

If empty: Do not reuse container. Place in trash and offer for recycling if available. If partly filled: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place any unused product down any outdoor or indoor drain.

SECTION 14. Transport Information BIO SPOT SHAMPOO FOR DOGS & PUPPIES

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not regulated as hazardous by U.S. DOT.

Precautionary Label Shampoo, hair, N.O.I. in boxes: NMFC 59320 Sub 2 Cl 65
Protect from freezing.

SECTION 15. Regulatory Information BIO SPOT SHAMPOO FOR DOGS & PUPPIES

No data available.

SECTION 16. Other Information BIO SPOT SHAMPOO FOR DOGS & PUPPIES

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.

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<p>Flammability</p> <p>Health 1</p> <p>Instability</p> <p>Special Hazard</p>	Minimal: 0	Generated 05/18/2010 Revision 05/18/2010 Supercedes Revision 02/10/2009 Date Created 01/18/2007
	Slight: 1	
	Moderate: 2	
	Serious: 3	
	Extreme: 4	