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: S Faith/Regulatory

Additional Identity Information

12-oz 3006087

SECTION 2. Composition/Information on Ingredients

BIO SPOT SHAMPOO FOR DOGS & PUPPIES

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

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 on (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.

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**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.

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

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

http://msds.farnam.com/m001734.htm  
9/21/2010
**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 [ X ]

**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 [ X ]

**Conditions To Avoid - Hazardous Polymerization**  
No data available.

### SECTION 11. Toxicological Information  
**BIO SPOT SHAMPOO FOR DOGS & PUPPIES**

**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.

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-</td>
<td>65733-16-6</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
</tr>
</tbody>
</table>
Carcinogenicity:  
NTP? No  IARC Monographs? No  OSHA Regulated? No

Additional Toxicological Information

DEVELOPMENTAL/REPRODUCTIVE TOXICITY  
[(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  
[(RS)-Methoprene Technical] Methoprene is not a mutagen.  
[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.
<table>
<thead>
<tr>
<th>Flammability</th>
<th>Instability</th>
<th>Health</th>
<th>Special Hazard</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Minimal: 0</td>
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<tr>
<td></td>
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<td>Slight: 1</td>
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<td></td>
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</tr>
<tr>
<td></td>
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<td>Extreme: 4</td>
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**Date Created** 01/18/2007