MATERIAL SAFETY DATA SHEET

SECTION 1. Product and Company Identification
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

<table>
<thead>
<tr>
<th>Product Code:</th>
<th>2724-759-270A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name:</td>
<td>ADAMS D-LIMONENE FLEA &amp; TICK SHAMPOO</td>
</tr>
<tr>
<td>Manufacturer Information</td>
<td></td>
</tr>
<tr>
<td>Company Name:</td>
<td>Distributed by:</td>
</tr>
<tr>
<td></td>
<td>Farnam Companies, Inc.</td>
</tr>
<tr>
<td></td>
<td>301 West Osborn Road</td>
</tr>
<tr>
<td></td>
<td>Phoenix, AZ</td>
</tr>
<tr>
<td>Emergency Contact:</td>
<td>CHEMTREC (800)424-9300</td>
</tr>
<tr>
<td>Alternate Emergency Contact:</td>
<td>District of Columbia (202)483-0414</td>
</tr>
<tr>
<td>Information:</td>
<td>Farnam Companies, Inc. (800)234-2269</td>
</tr>
<tr>
<td>Preparer Name:</td>
<td>SFaith/Regulatory</td>
</tr>
<tr>
<td>Chemical Family:</td>
<td>Compound</td>
</tr>
<tr>
<td>Additional Identity Information</td>
<td>3006102</td>
</tr>
</tbody>
</table>

SECTION 2. Composition/Information on Ingredients
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

<table>
<thead>
<tr>
<th>Hazardous Components (Chemical Name)</th>
<th>CAS #</th>
<th>Concentration</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
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</thead>
<tbody>
<tr>
<td>d-Limonene</td>
<td>5989-29-5</td>
<td>5.0 %</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>EMERSOL 6434</td>
<td>139-96-8</td>
<td>50.0 %</td>
<td>No data.</td>
<td>No data.</td>
</tr>
<tr>
<td>COCOAMIDE DEA</td>
<td>68603-42-9</td>
<td>5.0 %</td>
<td>No data.</td>
<td>No data.</td>
</tr>
</tbody>
</table>

SECTION 3. Hazards Identification
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Emergency Overview
EYES: May cause irritation.
SKIN: May cause mild skin irritation in individuals with sensitive skin.
INHALATION: None known.
INGESTION: Amounts transferred to the mouth by fingers, etc. during normal operations should not cause injury.
SYSTEMIC & OTHER EFFECTS: None known.
Route(s) of Entry: Inhalation? No , Skin? Yes , Eyes? Yes , Ingestion? Yes
Potential Health Effects (Acute and Chronic)
No data available.

Signs and Symptoms Of Exposure
Unnecessary exposure to this product, or any chemical, should be avoided.

Medical Conditions Generally Aggravated By Exposure
NE

SECTION 4. First Aid Measures
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Emergency and First Aid Procedures
EYES: Flush eyes repeatedly with plenty of water. Get medical attention.
SKIN: Wash with soap and water.
INHALATION: Remove to fresh air.
ORAL: Call a physician or poison control center. Give a glass or two of water and induce vomiting by touching the back of the throat with finger; or, if available, administer syrup of ipecac. Never give anything by mouth to an unconscious person.

SECTION 5. Fire Fighting Measures
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Flash Pt:                      > 200.00 F
Explosive Limits:             LEL: NE    UEL: NE
Autoignition Pt:              NE

Fire Fighting Instructions
None

Flammable Properties and Hazards
None

Extinguishing Media
None

SECTION 6. Accidental Release Measures
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Steps To Be Taken In Case Material Is Released Or Spilled
Soak up spill material with absorbent material. Mop spill area with water.

SECTION 7. Handling and Storage
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Hazard Label Information:
Avoid contact with eyes.

Precautions To Be Taken in Handling
Professional groomers or applicators (those with repeated and extended exposure) should wear goggles, apron, and rubber gloves at a minimum when working with this and other similar products.
Precautions To Be Taken in Storing
Store in dry place. Do not contaminate water, food or feed by storage or disposal.

Other Precautions
KEEP OUT OF REACH OF CHILDREN. Read and follow directions on product label.

SECTION 8. Exposure Controls/Personal Protection
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Respiratory Equipment (Specify Type)
None needed when used according to label directions.

Eye Protection
Use proper protection; safety glasses at a minimum.

Protective Gloves
none normally needed

Other Protective Clothing
None needed.

Engineering Controls (Ventilation etc.)
Use only in a well-ventilated area.

Work/Hygienic/Maintenance Practices
Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating, smoking, or using the restroom.

Additional Exposure Control Information
Use only at room temperature.

SECTION 9. Physical and Chemical Properties
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Physical States:  [   ] Gas  [ X ] Liquid  [   ] Solid
Melting Point:  N.A.
Boiling Point:  > 212.00 F
Autoignition Pt:  NE
Flash Pt:  > 200.00 F
Explosive Limits:  LEL:  NE  UEL:  NE
Specific Gravity (Water = 1):  1.02
Vapor Pressure (vs. Air or mm Hg):  ~17mm at 70.0 F
Vapor Density (vs. Air = 1):  N.A.
Evaporation Rate (vs Butyl Acetate=1):  1.0
Solubility in Water:  Miscible
Percent Volatile:  72.0 % by volume.
Corrosion Rate:  No data.
pH:  7.1-7.9

Appearance and Odor
Clear to amber liquid with citrus odor.
SECTION 10. Stability and Reactivity
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Stability: Unstable [    ]       Stable [ X ]

Conditions To Avoid - Instability
None known

Incompatibility - Materials To Avoid
None known

Hazardous Decomposition Or Byproducts
None known

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

Conditions To Avoid - Hazardous Polymerization
Will not occur

SECTION 11. Toxicological Information
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

No data available.

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>d-Limonene</td>
<td>5989-29-5</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
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<td>COCOAMIDE DEA</td>
<td>68603-42-9</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
<td>n.a.</td>
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</tbody>
</table>

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

SECTION 12. Ecological Information
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

No data available.

SECTION 13. Disposal Considerations
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

Waste Disposal Method
Do not reuse container. Wrap container and discard with trash. Full or leaking containers should be taken to a local disposal company for biological treatment or incineration. Dispose of in accordance with local, state and federal regulations.

SECTION 14. Transport Information
ADAMS D-LIMONENE FLEA & TICK SHAMPOO

LAND TRANSPORT (US DOT)

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

**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.