Safety Data Sheet

Section 1: Identification

Product identifier
Product Name • Adams Flea & Tick Home & Carpet Spray
Synonyms • 100522362; EPA Reg. No. 2724-702-270
Product Description • Water-white to white fan aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against
Recommended use • Insect growth regulator. Insecticide.
Restrictions on use • Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid inhalation of vapors or fumes.

Details of the supplier of the safety data sheet
Manufacturer • Farnam Companies, Inc.
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States
www.farnam.com

Emergency telephone number
Manufacturer • 1-800-234-2269
Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside the US collect calls accepted

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture
OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Flammable Aerosols 2

Label elements
OSHA HCS 2012

WARNING

Hazard statements • Flammable aerosol
May cause drowsiness or dizziness

Precautionary statements

Prevention • Avoid breathing dust, fume, gas, mist, vapors and/or spray.
Use only outdoors or in a well-ventilated area.
Do not spray on an open flame or other ignition source.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Pressurized container: Do not pierce or burn, even after use.

Response • IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50ºC/122ºF.

Other hazards
OSHA HCS 2012 • Toxic to aquatic organisms and bees, silkworms and other domestic insects and animals.

Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyriproxyfen</td>
<td>CAS:95737-68-1</td>
<td>0.02%</td>
</tr>
<tr>
<td>Prallethrin</td>
<td>CAS:23031-36-9</td>
<td>0.3%</td>
</tr>
<tr>
<td>Etofenprox</td>
<td>CAS:80844-07-1</td>
<td>0.5%</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>CAS:113-48-4</td>
<td>0.5%</td>
</tr>
<tr>
<td>Butane</td>
<td>CAS:106-97-8</td>
<td>7.5%</td>
</tr>
<tr>
<td>Propane</td>
<td>CAS:74-98-6</td>
<td>7.5%</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>CAS:64742-47-8</td>
<td>10.4%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>NDA</td>
<td>Balance</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures

Inhalation • IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin • IF ON SKIN: Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.
Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Ingestion

- IF SWALLOWED: Do not induce vomiting unless told to do so by a poison control center or doctor. Call a physician or poison control center if you feel unwell.

Most important symptoms and effects, both acute and delayed

- May cause dizziness and/or drowsiness if inhaled. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
- In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media
- No data available

Firefighting Procedures
- Do not allow fire fighting water to escape into waterways or sewers. Firefighters should wear full protective clothing including self contained breathing apparatus. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Move containers from fire area if you can do it without risk. Ventilate closed spaces before entering.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
- Containers may explode when heated. Flammable; may be ignited by heat, sparks or flames.

Hazardous Combustion Products
- No data available

Advice for firefighters
- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
- Ventilate the area. Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Use appropriate Personal Protective Equipment (PPE).

Emergency Procedures
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid unnecessary personnel and equipment traffic in the spill area. Ventilate closed spaces before entering.

Environmental precautions
- Avoid release to the environment. Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up
Section 7 - Handling and Storage

Precautions for safe handling
Handling

- Wear appropriate personal protective equipment, avoid direct contact. Contents under pressure, do not crush, puncture or incinerate. Do not use or store near heat or open flame. Keep away from heat, sparks, and flame – No Smoking. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities
Storage

- Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F Keep away from fire, sparks and heated surfaces. Do not store or ship under freezing conditions. NFPA Aerosol Classification: Level 1.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

Engineering Measures/Controls

- Non-Household Setting: Use in a well ventilated area. Use safety glasses. If airborne mist hazard exists use gloves and other protective clothing to prevent skin contact.

Personal Protective Equipment

Pictograms

- Respiratory
  - In case of insufficient ventilation, wear suitable respiratory equipment.
- Eye/Face
  - Wear safety glasses.
- Hands
  - Wear protective gloves.
- Skin/Body
  - If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aerosol</td>
<td>Water-white to white fan aerosol spray.</td>
</tr>
</tbody>
</table>
Section 10: Stability and Reactivity

Reactivity  
- Non-reactive under normal handling and storage conditions.

Chemical stability  
- Stable

Possibility of hazardous reactions  
- Hazardous polymerization will not occur. Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid  
- Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials  
- Strong oxidizers.

Hazardous decomposition products  
- No data available

Section 11 - Toxicological Information

Information on toxicological effects

<table>
<thead>
<tr>
<th>CAS</th>
<th>Acute Toxicity:</th>
<th>Irritation:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adams Flea &amp; Tick Home &amp; Carpet Spray</td>
<td>NDA</td>
<td>Ingestion/Oral-Rat LD50 • &gt;5000 mg/kg; Inhalation-Rat LC50 • &gt;2.07 mg/L 4 Hour (s); Skin-Rat LD50 • &gt;5000 mg/kg;</td>
</tr>
</tbody>
</table>

GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute</td>
</tr>
</tbody>
</table>
### Acute toxicity

Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met

### Skin corrosion/Irritation

OSHA HCS 2012 • Classification criteria not met

### Serious eye damage/Irritation

OSHA HCS 2012 • Classification criteria not met

### Skin sensitization

OSHA HCS 2012 • Classification criteria not met

### Respiratory sensitization

OSHA HCS 2012 • Classification criteria not met

### Aspiration Hazard

OSHA HCS 2012 • Classification criteria not met

### Carcinogenicity

OSHA HCS 2012 • Classification criteria not met

### Germ Cell Mutagenicity

OSHA HCS 2012 • Classification criteria not met

### Toxicity for Reproduction

OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects

### STOT-SE

OSHA HCS 2012 • Classification criteria not met

### STOT-RE

OSHA HCS 2012 • Classification criteria not met

## Potential Health Effects

### Inhalation

- **Acute (Immediate)**
  - May cause respiratory irritation. May cause drowsiness and dizziness.

- **Chronic (Delayed)**
  - No data available

### Skin

- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.

- **Chronic (Delayed)**
  - Prolonged and repeated exposure to Etofenprox can cause skin irritation.

### Eye

- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.

- **Chronic (Delayed)**
  - No data available

### Ingestion

- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.

- **Chronic (Delayed)**
  - No data available

### Mutagenic Effects

- Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods. Pyriproxifen has been tested and found negative for mutagenicity potential. Prallethrin is not a mutagen. N-octyl bicycloheptene dicarboximide was concluded to be negative in the CHO chromosome aberration assay.

### Carcinogenic Effects

- Etofenprox is not classified as a carcinogen by NTP, IARC and OSHA. Pyriproxifen is not classified as a carcinogen by IARC, NTP or OSHA. Prallethrin is not classified as a carcinogen by NTP, IARC and OSHA. N-octyl bicycloheptene dicarboximide is not listed by IARC, NTP, OSHA or ACGIH as a carcinogen. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

### Reproductive Effects

- Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments. Pyriproxyfen is not a teratogen. Prallethrin is not a reproductive toxicant. N-octyl bicycloheptene dicarboximide has been tested and is not a reproductive toxin.

## Section 12 - Ecological Information

### Toxicity

Preparation Date: 30/August/2016
Revision Date: 30/August/2016

Format: GHS Language: English (US)
OSHA HCS 2012

Page 6 of 9
### Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Aquatic Toxicity - Fish</th>
<th>Aquatic Toxicity - Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Etofenprox (0.5%)</td>
<td>80844-07-1</td>
<td>96 Hour(s) LC50 Sheepshead minnow &gt;0.0165 mg/L [Acute]</td>
<td>48 Hour(s) LC50 Water Flea Daphnia magna 0.0008 mg/L [Acute]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 Hour(s) LC50 Rainbow Trout 0.0027 mg/L [Acute]</td>
<td>NOEC Water Flea Daphnia magna 0.00017 mg/L [Chronic]</td>
</tr>
<tr>
<td>Pyriproxyfen (0.02%)</td>
<td>95737-68-1</td>
<td>96 Hour(s) LC50 Rainbow trout &gt;0.325 mg/L [Acute]</td>
<td>Water Flea Daphnia magna 0.0054 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 Hour(s) LC50 Blue gill &gt;0.27 mg/L [Acute]</td>
<td>48 Hour(s) LC50 Water Flea Daphnia magna 0.4 mg/L [Acute]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LC50 Rainbow trout 0.09 mg/L [Chronic]</td>
<td>NOEC LC50 Water Flea Daphnia magna &gt;0.092 mg/L [Chronic]</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide (0.5%)</td>
<td>113-48-4</td>
<td>LC50 1.4-2.4 mg/L [Acute]</td>
<td>NOEC Daphnia magna 0.0065 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Aquatic Toxicity - Fish: Rainbow Trout 0.012 mg/L [Acute]</td>
<td>Aquatic Toxicity - Crustacea: Daphnia magna 0.0062 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 Hour(s) LC50 Sheepshead Minnow 0.026 mg/L [Acute]</td>
<td>48 Hour(s) LC50 Rainbow Trout 0.003 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOEC Rainbow Trout 0.003 mg/L [Chronic]</td>
<td>NOEC Daphnia magna 0.00065 mg/L [Chronic]</td>
</tr>
<tr>
<td>Prallethrin (0.3%)</td>
<td>23031-36-9</td>
<td>Aquatic Toxicity - Fish: Rainbow Trout 0.012 mg/L [Acute]</td>
<td>Aquatic Toxicity - Crustacea: Water Flea Daphnia magna 0.0054 mg/L [Chronic]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>96 Hour(s) LC50 Sheepshead Minnow 0.026 mg/L [Acute]</td>
<td>48 Hour(s) LC50 Water Flea Daphnia magna 0.4 mg/L [Acute]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>NOEC Rainbow Trout 0.003 mg/L [Chronic]</td>
<td>NOEC Daphnia magna 0.0065 mg/L [Chronic]</td>
</tr>
</tbody>
</table>

### Persistence and degradability
- No data available

### Bioaccumulative potential
- No data available

### Mobility in Soil
- No data available

### Other adverse effects

#### Potential Environmental Effects
- No data available.

### Section 13 - Disposal Considerations

#### Waste treatment methods

**Product waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not contaminate water when disposing of equipment washwaters or rinsate. Never place unused product down any indoor or outdoor drain. Do not puncture or incinerate.

**Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. If empty: Place in trash or offer for recycling if available.

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
</table>
**Section 15 - Regulatory Information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**SARA Hazard Classifications**  • Acute

**FIFRA – Pesticide Labeling**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION**

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION: Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Repeated exposure to etofenprox can cause skin irritation.

**First Aid**

IF ON SKIN OR CLOTHING • Take off contaminated clothing• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for further treatment advice.

**Physical or Chemical Hazards**

Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Use adequate ventilation during use. Do not smoke while using this product. Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not allow product to freeze.

**Inventory**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Compound</td>
<td>CAS Number</td>
<td>Change</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------</td>
<td>--------</td>
</tr>
<tr>
<td>Etofenprox</td>
<td>80844-07-1</td>
<td>No</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>113-48-4</td>
<td>No</td>
</tr>
<tr>
<td>Prallethrin</td>
<td>23031-36-9</td>
<td>No</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>Yes</td>
</tr>
<tr>
<td>Pyriproxyfen</td>
<td>95737-68-1</td>
<td>No</td>
</tr>
</tbody>
</table>

### Section 16 - Other Information

<table>
<thead>
<tr>
<th>Revision Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revision Date</strong></td>
</tr>
<tr>
<td>30/August/2016</td>
</tr>
</tbody>
</table>

**Revision Date**
- 30/August/2016

**Last Revision Date**
- 23/August/2012

**Preparation Date**
- 11/August/2011

**Disclaimer/Statement of Liability**
- The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.