# Adams Plus Flea & Tick Shampoo with Precor

**Safety Data Sheet**

**Date of issue:** 06/21/2016  **Revision date:** 09/29/2017  **Version:** 1.0

## SECTION 1: Identification

### 1.1. Identification

- **Product form:** Mixture
- **Trade name:** Adams Plus Flea & Tick Shampoo with Precor
- **Synonyms:** 100503441, 100503549, EPA Reg. No.: 2724-485-270

### 1.2. Recommended use and restrictions on use

- **Recommended use:** Flea and tick shampoo.
- **Restrictions on use:** Keep out of reach of children. Avoid contact with eyes, skin and clothing.

### 1.3. Supplier

Farnam Companies, Inc.
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
www.adamsfleacontrol.com

### 1.4. Emergency telephone number

- **Emergency number:** 1-800-234-2269
- **CHEMTREC:**
  - 1-800-424-9300
  - 1-703-527-3887 - Outside North America - Collect Calls Accepted

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

**GHS-US classification**
- Skin corrosion/irritation Category 2: Causes skin irritation
- Serious eye damage/eye irritation Category 2B: Causes eye irritation

### 2.2. GHS Label elements, including precautionary statements

**GHS-US labeling**

- **Hazard pictograms (GHS-US):** ![](image)
- **Signal word (GHS-US):** Warning
- **Hazard statements (GHS-US):**
  - Causes skin irritation
  - Causes eye irritation
- **Precautionary statements (GHS-US):**
  - Wash hands, forearms and face thoroughly after handling.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If on skin: Wash with plenty of water
  - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
  - If skin irritation occurs: Get medical advice/attention.
  - If eye irritation persists: Get medical advice/attention.
  - Take off contaminated clothing and wash it before reuse.

### 2.3. Other hazards which do not result in classification

**Other hazards not contributing to the classification:**
This product is extremely toxic to fish and aquatic vertebrates. This product is highly toxic to bees. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable
## 3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>(S)-Methoprene Technical</td>
<td>(CAS-No.) 65733-16-6</td>
<td>0.1</td>
</tr>
<tr>
<td>Pyrethrins</td>
<td>(CAS-No.) 8003-34-7</td>
<td>0.15</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>(CAS-No.) 51-03-6</td>
<td>1.88</td>
</tr>
<tr>
<td>Cocamidopropyl betaine</td>
<td>(CAS-No.) 61789-40-0</td>
<td>8.12 - 8.68</td>
</tr>
<tr>
<td>Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts</td>
<td>(CAS-No.) 67762-19-0</td>
<td>7.54 - 7.8</td>
</tr>
<tr>
<td>Ethanol</td>
<td>(CAS-No.) 64-17-5</td>
<td>1.69 - 1.95</td>
</tr>
<tr>
<td>Coconut oil monoethanolamide</td>
<td>(CAS-No.) 68140-00-1</td>
<td>1.35 - 1.5</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>(CAS-No.) N/A</td>
<td>Balance</td>
</tr>
</tbody>
</table>

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

#### First-aid measures after inhalation

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

#### First-aid measures after skin contact

IF ON SKIN: Wash with plenty of soap and water. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

#### First-aid measures after eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.

#### First-aid measures after ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

### 4.2. Most important symptoms and effects (acute and delayed)

#### Symptoms/effects after skin contact

Irritation.

#### Symptoms/effects after eye contact

Mild eye irritation.

### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

#### Suitable extinguishing media


#### Unsuitable extinguishing media

Avoid heavy hose streams.

### 5.2. Specific hazards arising from the chemical

#### Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

#### Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid contact with skin and eyes.

#### For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.

Emergency procedures: No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal. Use appropriate PPE.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Keep only in original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins (8003-34-7)</td>
<td>ACGIH TWA (mg/m³)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td>Ethanol (64-17-5)</td>
<td>ACGIH STEL (ppm)</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
</tr>
<tr>
<td></td>
<td>1000 ppm</td>
<td>1900 mg/m³</td>
<td>1900 mg/m³</td>
</tr>
</tbody>
</table>

8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Not required for normal conditions of use

Respiratory protection: Not required for normal conditions of use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Adams Plus Flea & Tick Shampoo with Precor
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Appearance: Pale green pearlescent viscous liquid
Color: Pale green
Odor: Similar to baby powder
Odor threshold: No data available
pH: 5.9 @ 21.3°C (70.3°F)
Melting point: Not applicable
Freezing point: No data available
Boiling point: No data available
Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: 1.024 @ 20°C (68°F)
Solubility: Insoluble
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: 2000 cP (20 °C) (68 °F)
Explosion limits: No data available
Explosive properties: Not explosive
Oxidizing properties: Not applicable

9.2. Other information
No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Adams Plus Flea &amp; Tick Shampoo with Precor</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
<tr>
<td>pH</td>
</tr>
</tbody>
</table>

| LD50 oral rat | > 5100 mg/kg |
| LD50 dermal rabbit | > 2100 mg/kg |
| pH            | 5.9 @ 21.3°C (70.3°F) |

<table>
<thead>
<tr>
<th>GHS-US Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Not classified</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Causes eye irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>Not classified</td>
</tr>
</tbody>
</table>
### Germ cell mutagen
Not classified

### Carcinogenicity
Not classified

### Reproductive toxicity
Not classified

### Specific target organ toxicant (single exposure)
Not classified

### Specific target organ toxicant (repeated exposure)
Not classified

### Aspiration hazard
Not classified

#### Potential health effects

**Skin**

**Acute**: Causes skin irritation.

**Eye**

**Acute**: Causes mild eye irritation.

**Mutagenicity**: (s)-Methoprene has been tested and found negative for mutagenicity potential, Pyrethrins were not found to be genotoxic and did not damage DNA in any study conducted which included: Ames assay, chromosome aberration in Chinese hamster ovaries (CHO) cells and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells, Piperonyl butoxide was not mutagenic in a battery of tests.

**Carcinogenicity**: (s)-Methoprene is not classified as carcinogen by NTP, IARC and OSHA, Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP, Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA.

**Reproductive Effects**: (s)-Methoprene is not a reproductive toxin and does not cause birth defects, Pyrethrins did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits, Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits.

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### (s)-Methoprene Technical (65733-16-6)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Exposure Time</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 1</td>
<td>0.76 mg/l</td>
<td>96h</td>
<td>Rainbow trout</td>
</tr>
<tr>
<td>LC50 Acute fish 2</td>
<td>&gt; 0.37 mg/l</td>
<td>96h</td>
<td>Blue gill</td>
</tr>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>0.11 mg/l</td>
<td>96h</td>
<td>Mysid shrimp</td>
</tr>
<tr>
<td>LC50 Acute crustacea 2</td>
<td>0.36 mg/l</td>
<td>48h</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.048 mg/l</td>
<td></td>
<td>Fathead minnow</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.014 mg/l</td>
<td></td>
<td>Mysid shrimp</td>
</tr>
</tbody>
</table>

##### Pyrethrins (8003-34-7)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Exposure Time</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 1</td>
<td>0.0051 mg/l</td>
<td>96h</td>
<td>Rainbow trout</td>
</tr>
<tr>
<td>LC50 Acute fish 2</td>
<td>0.016 mg/l</td>
<td>96h</td>
<td>Sheephead minnow</td>
</tr>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>0.0014 mg/l</td>
<td>96h</td>
<td>Mysid shrimp</td>
</tr>
<tr>
<td>LC50 Acute crustacea 2</td>
<td>0.0116 mg/l</td>
<td>48h</td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.0019 mg/l</td>
<td></td>
<td>Fathead minnow</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.0059 mg/l</td>
<td></td>
<td>Sheephead minnow</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 2</td>
<td>0.00086 mg/l</td>
<td></td>
<td>Daphnia magna</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 2</td>
<td>0.0001 mg/l</td>
<td></td>
<td>Mysid shrimp</td>
</tr>
</tbody>
</table>

##### Piperonyl butoxide (51-03-6)

<table>
<thead>
<tr>
<th>Endpoint</th>
<th>Value</th>
<th>Exposure Time</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 1</td>
<td>1.9 mg/l</td>
<td>na</td>
<td>Rainbow trout</td>
</tr>
<tr>
<td>LC50 Acute fish 2</td>
<td>3.94 mg/l</td>
<td>na</td>
<td>Sheephead minnow</td>
</tr>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>0.49 mg/l</td>
<td>na</td>
<td>Mysid shrimp</td>
</tr>
<tr>
<td>LC50 Acute crustacea 2</td>
<td>0.51 mg/l</td>
<td>na</td>
<td>Gammarus fasciatus (amphipod)</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.04 mg/l</td>
<td></td>
<td>Fathead minnow</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.03 mg/l</td>
<td></td>
<td>Daphnia magna</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

##### (s)-Methoprene Technical (65733-16-6)

(s)-Methoprene degrades rapidly in sunlight, both in water and on inert surfaces. The pesticide also is metabolized rapidly in soil and does not leach. Thus, it should not persist in soil or contaminate ground water.
12.3. Bioaccumulative potential

Coconut oil monoethanolamide (68140-00-1)

| Log Pow | 3.89 |

12.4. Mobility in soil

(s)-Methoprene Technical (65733-16-6)

| Mobility in soil | Rapidly metabolized in soil under both aerobic and anaerobic conditions (half-life 10-14 days). |

12.5. Other adverse effects

Adams Plus Flea & Tick Shampoo with Precor

| Ecological Fate | This pesticide is toxic to aquatic organisms, including fish and invertebrates. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. |

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

SECTION 14: Transport information

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper Shipping Name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not regulated</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>RQ Pyrethrins = 1 lb.</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

SECTION 15: Regulatory information

15.1. US Federal regulations

Pyrethrins (8003-34-7)

| CERCLA RQ | 1 lb listed under Pyrethrins |

Piperonyl butoxide (51-03-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Subject to reporting requirements of United States SARA Section 313
SARA Section 313 - Emission Reporting 1 %

Cocamidopropyl betaine (61789-40-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts (67762-19-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e., Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

Coconut oil monoethanolamide (68140-00-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

FIFRA Labelling

| EPA Registration Number | 2724-485-270 |
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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.

FIFRA Signal word  Caution
FIFRA Precautionary Statement  KEEP OUT OF REACH OF CHILDREN.
FIFRA Hazards to Humans and Domestic Animals  HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco and using the toilet. Remove and wash contaminated clothing before reuse. DOMESTIC ANIMALS: Do not apply to pets (puppies and kittens) less than 12 weeks old.
FIFRA First Aid  If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 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 five minutes, then continue rinsing eye.
FIFRA Environmental Hazards  This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. See directions of use for additional precautions and requirements.

15.2. US State regulations
No additional information available

SECTION 16: Other information
Date of issue  : 21 June 2016
Revision date  : 29 September 2017

SDS US (GHS HazCom 2012) - CGP

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