



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Adams Plus Flea & Tick Shampoo with Precor**

Synonyms

- 100503441; 100503549; EPA Reg. No.: 2724-485-270

Product Description

- Pale green pearlescent viscous liquid.

Relevant identified uses of the substance or mixture and uses advised against**Recommended use**

- Flea and tick shampoo.

Restrictions on use

- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin or clothing.

Details of the supplier of the safety data sheet**Manufacturer**

- Farnam Companies, Inc.
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

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**

- Eye Mild Irritation 2B
Skin Irritation 2

Label elements**OSHA HCS 2012****WARNING**

Hazard statements • Causes eye irritation
Causes skin irritation

Precautionary statements

- Prevention** • Wash thoroughly after handling.
Wear protective gloves.
- Response** • 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/attention.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Other hazards**OSHA HCS 2012**

- This product is extremely toxic to fish and aquatic invertebrates and highly toxic to bees exposed to direct treatment or to residues on crop or weeds. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
S-Methoprene	CAS:65733-16-6	0.1%
Pyrethrins	CAS:8003-34-7	0.15%
Piperonyl butoxide	CAS:51-03-6	1.88%
Cocamidopropyl betaine	CAS:61789-40-0	8.12% TO 8.68%
Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts	CAS:67762-19-0	7.54% TO 7.8%
Ethanol	CAS:64-17-5	1.69% TO 1.95%
Coconut oil monoethanolamide	CAS:68140-00-1	1.35% TO 1.5%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice.

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. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: call a poison center or doctor if you feel unwell. Rinse mouth. Have person drink pint of lukewarm water if able to swallow. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Causes eye irritation. Causes skin irritation. 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 • Use water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • Avoid heavy hose streams.

Firefighting Procedures • Keep unauthorized personnel away.
Stay upwind.
Ventilate closed spaces before entering.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • None known.

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

- Avoid contact with skin, eyes, and clothing. Remove clothing and wash thoroughly after use. Use appropriate Personal Protective Equipment (PPE). Do not walk through spilled material.

Emergency Procedures • Use normal clean up procedures.

Environmental precautions

- Contain and prevent from release into any waterway, sewer or drain.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • **LARGE SPILLS:** Dike far ahead of spill for later disposal.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Wash hands thoroughly with soap and water after handling. Read label before use.

Avoid contact with skin or eyes.

Conditions for safe storage, including any incompatibilities

Storage

- Keep container/package tightly closed in a cool, well-ventilated place. Keep only in the original container. Avoid extreme temperatures.

Incompatible Materials or Ignition Sources

- No data available.

Other Information

- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No data available.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Pyrethrins (8003-34-7)	TWAs	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
Ethanol (64-17-5)	TWAs	Not established	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA
	STELs	1000 ppm STEL	Not established	Not established

Exposure Limits Supplemental

ACGIH

- Pyrethrins (8003-34-7): **TLV Basis - Critical Effects:** (liver damage; lower respiratory tract irritation)
- Ethanol (64-17-5): **TLV Basis - Critical Effects:** (upper respiratory tract irritation)

Exposure controls

Engineering Measures/Controls

- No data available

Personal Protective Equipment

Respiratory

- Not required with normal use.

Eye/Face

- Not required with normal use.

Hands

- Not required with normal use.

Skin/Body

- Not required with normal use.

Environmental Exposure Controls

- Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Pale green pearlescent viscous liquid.
Color	Pale green.	Odor	Similar to baby powder.
Odor Threshold	No data available		
General Properties			

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	5.9 @ 21.3°C (70.3°F)
Specific Gravity/Relative Density	1.024 @ 20°C (68°F)	Bulk Density	No data available
Water Solubility	Insoluble	Viscosity	2000 Centipoise (cPs, cP) or mPas @ 20 °C(68 °F)
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Flame Duration	No data available
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- No data available.

Incompatible materials

- No data available.

Hazardous decomposition products

- No data available.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Adams Plus Flea & Tick Shampoo with Precor	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5100 mg/kg; Skin-Rabbit LD50 • >2100 mg/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2

Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
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 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Ingestion, Eyes, and Skin

Potential Health Effects

Inhalation

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Causes skin irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Causes eye irritation.
- 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

- 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.

Carcinogenic Effects

- 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

- Methoprene did not produce birth defects or adverse effects on reproduction in animal tests. 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

Toxicity

Components	
	Aquatic Toxicity-Fish: NOEC <i>Fathead minnow</i> 0.048 mg/L [Chronic] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.76 mg/L [Acute]

S-Methoprene (0.1%)	65733-16-6	96 Hour(s) LC50 <i>Blue Gill</i> >0.37 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 0.36 mg/L [Acute] NOEC <i>Mysid shrimp</i> 0.014 mg/L [Chronic] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.11 mg/L [Acute]
Pyrethrins (0.15%)	8003-34-7	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0051 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 0.016 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.0019 mg/L [Chronic] NOEC <i>Sheepshead minnow</i> 0.0059 mg/L [Chronic (Est.)] Aquatic Toxicity-Crustacea: LC50 <i>Daphnia magna</i> 0.00086 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.0001 mg/L [Chronic (Est.)] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.0116 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0014 mg/L [Acute]
Piperonyl butoxide (1.88%)	51-03-6	Aquatic Toxicity-Fish: LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] Aquatic Toxicity-Crustacea: LC50 <i>Gammarus fasciatus (amphipod)</i> 0.51 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] NOEC <i>Daphnia magna</i> 0.03 mg/L [Chronic]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects**Potential Environmental Effects**

- This product 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**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	RQ Pyrethrins = 1 lb.
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78

- Not relevant.

and the IBC Code**Other information**

IMO/IMDG • No data available

IATA/ICAO • No data available

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 • Keep out of reach of children.

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.

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.

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.

Inventory		
Component	CAS	TSCA
S-Methoprene	65733-16-6	No
Poly(oxy-1,2-ethanediyl), a-sulfow-hydroxy-, C10-16-alkyl ethers,	67762-19-0	Yes

ammonium salts		
Coconut oil monoethanolamide	68140-00-1	Yes
Ethanol	64-17-5	Yes
Piperonyl butoxide	51-03-6	Yes
Pyrethrins	8003-34-7	No
Cocamidopropyl betaine	61789-40-0	Yes

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Cocamidopropyl betaine	61789-40-0	Not Listed
• Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts	67762-19-0	Not Listed
• Coconut oil monoethanolamide	68140-00-1	Not Listed
• Ethanol	64-17-5	Not Listed
• S-Methoprene	65733-16-6	Not Listed
• Piperonyl butoxide	51-03-6	Not Listed
• Pyrethrins	8003-34-7	1 lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins)

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Cocamidopropyl betaine	61789-40-0	Not Listed
• Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts	67762-19-0	Not Listed
• Coconut oil monoethanolamide	68140-00-1	Not Listed
• Ethanol	64-17-5	Not Listed
• S-Methoprene	65733-16-6	Not Listed
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration
• Pyrethrins	8003-34-7	Not Listed

Section 16 - Other Information

Revision Date • 21/June/2016

Last Revision Date • 21/June/2016

Preparation Date • 21/June/2016

Disclaimer/Statement of Liability •

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