

MATERIAL SAFETY DATA SHEET
ADAMS PLUS FLEA & TICK SHAMPOO
WITH PRECOR

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Printed: 03/03/2010
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1. Product and Company Identification

Product Code: 2724-485-270AP
Product Name: ADAMS PLUS FLEA & TICK SHAMPOO WITH PRECOR
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: SFaith/Regulatory

Additional Identity Information

12-oz 100503441, 1-gal 100503549

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-	65733-16-6	0.1 %		
2. Pyrethrins and Pyrethroids	8003-34-7	0.15 %	5 mg/m3	5 mg/m3
3. Piperonyl butoxide	51-03-6	1.5 %		

3. Hazards Identification

Emergency Overview

KEEP OUT OF THE 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? Skin? Yes Eyes? Yes Ingestion? Yes

Potential Health Effects (Acute and Chronic)

Skin Irritation: Moderately Irritating.

Eye Irritation: Mildly Irritating.

Sensitizer: Not a dermal sensitizer.

Recommended Exposure Limits

Pyrethrins = 5 mg/m3 (OSHA PEL & ACGIH TLV)

LD 50 / LC 50

Oral: LD50 (rat): >34,000 mg/kg (highest dose tested)(Based (S)-Methoprene))

Dermal: LD50 (rabbit) >2,000 mg/kg (highest dose 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.

4. First Aid Measures

Emergency and First Aid Procedures

IF IN EYES: If in eyes, hold eyelids open and flush with a steady, gentle stream of water for 15 -20 minutes.

Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

IF ON SKIN: 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 fresh air.

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Note to Physician

Treat symptomatically.

5. Fire Fighting Measures

Flammability Classification: Class IIIB liquid.
Flash Pt: NA
Explosive Limits: LEL: UEL:
Autoignition Pt: NA

Fire Fighting Instructions

Firefighters should wear full protective clothing including self-contained breathing apparatus. Use normal fire fighting procedures. Do not allow fire fighting water to escape into water-ways or sewers.

Flammable Properties and Hazards

None known

Hazardous Combustion Products

None known

Extinguishing Media

CO₂, foam, dry chemical.

Unsuitable Extinguishing Media

None known

6. Accidental Release Measures

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 and place in container for disposal.

ABSORBENTS: Clay granules, sawdust, dirt or equivalent.

7. Handling and Storage

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. Protect from freezing.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

See additional information below.

Eye Protection

See additional information below.

Protective Gloves

See additional information below.

Other Protective Clothing

See additional information below.

Engineering Controls (Ventilation etc.)

Natural ventilation will suffice.

Work/Hygienic/Maintenance Practices

Wash hands before eating, drinking, smoking, or using restroom.

Additional Exposure Control Information

If prolonged exposure is anticipated, it is recommended for users and handlers to wear a MSHA/NIOSH approved organic vapor/pesticide respirator, impervious gloves, goggles and other appropriate clothing to prevent skin contact.

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9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Melting Point: NA
Boiling Point: NA
Autoignition Pt: NA
Flash Pt: NA
Explosive Limits: LEL: UEL:
Specific Gravity (Water = 1): 1.024 @ 20°
Density: 8.5 lbs/gal
Bulk density: NA
Vapor Pressure (vs. Air or mm Hg): NA
Vapor Density (vs. Air = 1): NA
Evaporation Rate (vs Butyl Acetate=1): NA

Solubility Notes

Miscible in water.

Percent Volatile: NA
Saturated Vapor Concentration: NA
Viscosity: NA
Heat Value: NA
Particle Size: NA
Corrosion Rate: NA
pH: 5.9

Appearance and Odor

Pale green, pearlescent, viscous liquid with odor similar to baby powder.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

None known

Incompatibility - Materials To Avoid

Strong oxidizers, strong acids.

Hazardous Decomposition Or Byproducts

None known

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

Conditions To Avoid - Hazardous Polymerization

None known

11. Toxicological Information

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

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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

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

Additional Toxicological Information

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]

[(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 [Specific to Active Ingredient(s)]

[(RS)-Methoprene Technical] Methoprene is not a mutagenic compound.

[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.

12. Ecological Information

Pyrethrins and Piperonyl Butoxide are toxic to fish.

13. Disposal Considerations

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.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name

Not regulated as hazardous by U.S. DOT.

Freight Classification: Shampoo, hair, N.O.I. in boxes: NMFC 59320 Sub 2 CI 65

Protect from freezing.

DOT Hazard Label:

None

15. Regulatory Information

No data available.

16. Other Information

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.