MATERIAL SAFETY DATA SHEET
ADAMS PLUS FLEA & TICK INDOOR FOGGER

Printed: 11/19/2012
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1. Product and Company Identification

Product Code: 2724-808-270AP

Product Name: ADAMS PLUS FLEA & TICK INDOOR FOGGER

Manufacturer Information

Company Name: Distributed by:
Farnam Companies, Inc.
301 West Osborn Road
Phoenix, AZ

Emergency Contact: Animal or human exposure (800)234-2269

Alternate Emergency Contact: CHEMTREC (Emergency spills) (800)424-9300

Information: Farnam Companies (800)234-2269

Preparer Name: SFaith

Revision Date: 10/11/2012

Additional Identity Information

3pk 3oz #100512099

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. Etofenprox	80844-07-1	0.5 %		
2. Tetramethrin	7696-12-0	0.4 %		
3. N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	0.5 %		
4. 2,4-Dodecadienoic acid, 11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-	65733-16-6	0.09 %		

3. Hazards Identification

Emergency Overview

KEEP OUT OF THE REACH OF CHILDREN. HAZARDS TO HUMANS & DOMESTIC ANIMALS

Route(s) of Entry: Inhalation? Yes Skin? Eyes? Yes Ingestion?

Potential Health Effects (Acute and Chronic)

Inhalation

Causes moderate eye irritation.

Skin Contact

Avoid contact with eyes, skin or clothing.

Eye Contact

Repeated exposure to Etofenprox can cause skin irritation.

Ingestion

Breathing spray mist may be harmful.

Recommended Exposure Limits

Acetone: 500 ppm (ACGIH TWA) 1000 ppm (OSHA TWA).

Signs and Symptoms Of Exposure

Medical Conditions Generally Aggravated By Exposure

4. First Aid Measures

Emergency and First Aid Procedures

In Case of Eye Contact

Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, and then continue rinsing eyes.
Call a poison control center or doctor for treatment advice.

Note to Physician

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

5. Fire Fighting Measures

Flammability Classification: Level 1 Aerosol

Flash Pt:

Explosive Limits: LEL: UEL:

Autoignition Pt:

Fire Fighting Instructions

Use water to keep fire-exposed containers cool. Do not allow run-off to enter waterways or sewers. Contents under pressure.

Flammable Properties and Hazards

None known

Hazardous Combustion Products

None known

Extinguishing Media

Water spray, foam, dry chemical, CO2.

Unsuitable Extinguishing Media

Products of combustion are principally carbon dioxide, carbon monoxide, and water.

Additional Fire Fighting Information

Firefighters should wear full protective clothing including self-contained breathing apparatus.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Absorb spills with an inert material. Place in container for disposal. Do not allow spill to enter waterways or sewers.

Protective Precautions, Protective Equipment and Emergency Procedures

Absorbents: Clay granules, sawdust, dirt, or equivalent.

7. Handling and Storage

Precautions To Be Taken in Handling

Wash hands with soap and water after handling material. Avoid contact with skin, eyes, or clothing.

Precautions To Be Taken in Storing

Do not store above 130 degrees F. Do not store near open flames. Store in a cool, dry place away from children. Do not contaminate water, food, or feed, by storage.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

Eye Protection

Safety glasses

Protective Gloves

Chemical resistant gloves

Other Protective Clothing

Protective clothing is recommended.

Engineering Controls (Ventilation etc.)

Use adequate ventilation.

Work/Hygienic/Maintenance Practices

WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING, DRINKING, CHEWING GUM, USING TOBACCO, OR USING THE TOILET.

Additional Exposure Control Information

Employers should ensure that employees take adequate precautions to prevent contact with skin, eyes or clothing. End users should refer to the product labeling for appropriate personal protective equipment recommendations.

9. Physical and Chemical Properties

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Melting Point:	NE
Boiling Point:	NE
Decomposition Temperature:	NE
Specific Gravity (Water = 1):	0.96
Density:	NE
Bulk density:	NE
Vapor Pressure (vs. Air or mm Hg):	NE
Vapor Density (vs. Air = 1):	NE
Evaporation Rate:	NA
Solubility in Water:	

Solubility Notes

Emulsifies in water.

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

Appearance and Odor

White milky emulsion

10. Stability and Reactivity

Stability: Unstable [ ] Stable [X]

Conditions To Avoid - Instability

Product is stable.

Incompatibility - Materials To Avoid

Not determined

Hazardous Decomposition Or Byproducts

Not determined

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

Conditions To Avoid - Hazardous Polymerization

Will not occur.

11. Toxicological Information

Toxicological Information

ACUTE TOXICITY [Based on similar product]:
Acute oral toxicity (rat): LD50 >5,000 mg/kg
Acute dermal toxicity: LD50 >2,000 mg/kg
Acute inhalation toxicity: 4-hr LC50 >2.07 mg/L
Skin irritation: Slightly irritating
Eye irritation: Moderately irritating
Dermal Sensitization: Not a sensitizer

Chronic Toxicological Effects

SUBCHRONIC TOXICITY [Specific to Active Ingredient(s)]
Etofenprox is a mild skin irritant after 4-weeks of treatment. No systemic toxicity from dermal exposure was observed at doses up to 1000 mg/kg/day.
Tetramethrin in rats: The NOEL for 13-week inhalation study is >5.03 mg/m3 and for 6-month feeding study is 1500 ppm. In dogs the NOEL for a 90-day feeding study is >5000 ppm.
N-Octyl bicycloheptene dicarboximide The three-month subchronic inhalation NOEL for rats was 400 mg/m3
CHRONIC TOXICITY [Specific to Active Ingredient(s)]
Etofenprox is not listed as a carcinogen by NTP or IARC and is not regulated by OSHA.
In rats the target organs are the liver and thyroid. The NOAEL for chronic toxicity is 3.7 mg/kg/day for male rats. The target organ in mice is the kidney. The NOAEL is 3.1 mg/kg/day for mice.
Methoprene is not considered a carcinogen. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm.
Tetramethrin is classified by EPA as Class C (possible human carcinogen).
N-Octyl bicycloheptene dicarboximide Chronic toxicity NOEL for rats was 50mg/kg/day for rats and 250 ppm in the diet for dogs. The NOEL for oncogenicity was 450 mg/kg/day for rats and 50 mg/kg/day for mice.
Carcinogenicity: NTP: No IARC: No OSHA: No

Irritation or Corrosion

Skin Irritation: Slight irritant
Eye Irritation: Moderate irritant
Sensitizer: Not a skin sensitizer

Carcinogenicity/Other Information

DEVELOPMENTAL/REPRODUCTIVE TOXICITY [Specific to Active Ingredient(s)]
Etofenprox is not a teratogen. It is does not have adverse effects on reproduction.
Methoprene 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.
Tetramethrin is not a teratogen. It is does not have adverse effects on reproduction.
N-Octyl bicycloheptene dicarboximide The NOEL for developmental effects in rats was 300 mg/kg/day for maternal toxicity and 1000 mg/kg/day for developmental toxicity. The NOEL for fetotoxicity in rabbits was 100 mg/kg/day

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

Additional Toxicological Information

MUTAGENICITY [Specific to Active Ingredient(s)]
Etofenprox is not a mutagen.
Methoprene is not a mutagen.
Tetramethrin is not a mutagen when tested for gene mutations, chromosomal aberrations, and unscheduled DNA

synthesis.

12. Ecological Information

General Ecological Information

ENVIRONMENTAL FATE
Hydrolysis: Not determined
Photolysis: Not determined
Soil half life: Not determined
Water solubility: Not determined
ECOTOXICITY [Active Ingredients Only]
Etofenprox Acute Toxicity:
Rainbow trout: LC50 = 3.3 ppb
Bluegill: LC50 = 8.5 ppb
Methoprene Acute Toxicity:
Fish: LC50 (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene);
Aquatic invertebrates: LC50 (Daphnia): 360 ppb ((S)-Methoprene)
Tetramethrin Acute Toxicity:
Rainbow trout: LC50 =43.5 ppb
Bluegill: LC50 = 157.3 ppb
Daphnia: LC50 >300 mg/L

13. Disposal Considerations

Waste Disposal Method

Wastes resulting from use of this product should be disposed of in accordance with all federal, state and local requirements. For additional regulatory information, see section 15 of this document.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Consumer Commodity ORM-D.

Additional Transport Information

Animal Insecticides NMFC 102120 Class 60.

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.