SAFETY DATA SHEETS

This SDS packet was issued with item: 078909665

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

078909666

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1. P	roduct and Company Ide	ntification
Product Code:	2724-797-270APD	
Product Name:	ADAMS PLUS FLEA & TICK SPRAY FOR DOGS & CATS	
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/Regulatory	
Revision Date:	08/21/2012	
Additional Identity Information		
100511000 16		

100511009 16-oz 100511010 32-oz

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)		CAS #	Concentration	OSHA PEL	ACGIH TLV
1.	Etofenprox	80844-07-1	0.5 %		
2.	2,4-Dodecadienoic acid,	65733-16-6	0.27 %		
	11-methoxy-3,7,11-trimethyl-, 1-methylethyl ester, [S-(E,E)]-				
3.	Piperonyl butoxide	51-03-6	1.75 %		
		3. Hazar	ds Identific	ation	

Emergency Overview

KEEP OUT OF REACH OF CHILDREN

HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION: 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, OR USING THE TOILET. REPEATED EXPOSURE TO ETOFENPROX CAN CAUSE SKIN IRRITATION. Route(s) of Entry: Inhalation? Yes Skin? Yes Eyes? Yes Ingestion?

Potential Health Effects (Acute and Chronic)

Recommended Exposure Limits

Solvent (trade secret) = 100ppm (ACGIH TLV)

Signs and Symptoms Of Exposure

Slight skin irritant.

Slight eye irritant.

Medical Conditions Generally Aggravated By Exposure

4. First Aid Measures

Emergency and First Aid Procedures

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

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 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: If you suspect a reaction to this product. Discontinue use. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

5. Fire Fighting Measures

Flammability Classification:	Combustible Liquid		
Flash Pt:	41.80 C		
Explosive Limits:	LEL: 12	UEL:	3
Autoignition Pt:	NA		

Fire Fighting Instructions

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

Flammable Properties and Hazards

Hazardous Combustion Products

Incomplete combustion may produce carbon monoxide

Extinguishing Media

Dry chemical, CO2, Alcohol foam, or water spray

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 with absorbent material and place in container for disposal.

Additional Accidental Spill Information

Absorbents: Clay granules, sawdust, dirt or equivalent.

7. Handling and Storage

Precautions To Be Taken in Handling

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

Precautions To Be Taken in Storing

Do not store near heat or open flame. Store away from children and animals.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

May be necessary

Eye Protection

See below

Protective Gloves

See below

Other Protective Clothing

Engineering Controls (Ventilation etc.)

Use with adequate ventilation.

Work/Hygienic/Maintenance Practices

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

Additional Exposure Control Information

Use appropriate protective equipment to prevent contact with eyes, clothing and skin, including chemical resistant gloves and protective eyewear. If ventilation is inadequate to control airborne vapor concentrations below recommended exposure limits, respiratory protection may be necessary. End users of this product should consult product labeling for personal protective equipment recommendations.

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MATERIAL SAFETY DATA SHEET ADAMS PLUS FLEA & TICK SPRAY FOR DOGS & CATS 9. Physical and Chemical Properties

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9. 1	Physical and Chemical Properties	
Physical States:	[]Gas [X]Liquid []Solid	
Melting Point:	NA	
Boiling Point:	NA	
Decomposition Temperature:	NA	
Autoignition Pt:	NA	
Flash Pt:	41.80 C	
Explosive Limits:	LEL: 12 UEL: 3	
Specific Gravity (Water = 1):	NA	
Density:	0.9544 G/ML at 20.0 C	
Bulk density:	NA	
Vapor Pressure (vs. Air or mm Hg):	NA	
Vapor Density (vs. Air = 1):	NA	
Evaporation Rate:	NA	
Solubility in Water:		
Solubility Notes		
Miscible with water		
Percent Volatile:	N.A.	
Viscosity:	NA	
Heat Value:	NA	
Particle Size:	NA	
Corrosion Rate:	NA	
pH:	6.38	
Appearance and Odor		
Clear liquid		
	10. Stability and Reactivity	
Stability:	Unstable [] Stable [X]	
Conditions To Avoid - Instability		
Incompatibility - Materials To Avoid		
Strong oxidizers		
Hazardous Decomposition Or Bypro		
Hazardous Polymerization:	Will occur [] Will not occur [X]	
Conditions To Avoid - Hazardous Po	olymerization	
	11. Toxicological Information	
Toxicological Information ACUTE TOXICITY Acute oral toxicity: LD50 >5,000 mg/kg Acute dermal toxicity: LD50 >5,000 mg/kg Skin irritation: Slightly irritating Eye irritation: Moderately irritating Not a dermal sensitizer		

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Chronic Toxicological Effects

CHRONIC TOXICITY [Specific to Active Ingredient(s)]

Methoprene is not considered a carcinogen. The NOEL for non-carcinogenic effects in an 18 month mouse study was 250 ppm. .

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.

Piperonyl butoxide: An increase in the number of benign liver tumors in mice fed piperonyl butoxide technical at doses which far exceeded any anticipated daily human intake. Independent and industry toxicology experts have reviewed the data and agree that the findings of the study do not indicate a health risk to humans.

Carcinogenicity/Other Information

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

Additional Toxicological Information

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

Methoprene is not a teratogen. The NOEL for maternal and embryo toxicity in rabbits was 200 mg/kg/day. The NOEL for reproductive effects in rats was 2500 ppm.

Etofenprox is not a teratogen. It is does not have adverse effects on reproduction.

Piperonyl butoxide: There were no birth defects or adverse effects on reproductive parameters in tests with rats or rabbits. It is not considered to be teratogenic.

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12. Ecological Information

General Ecological Information

ECOTOXICITY [Active Ingredients Only] Methoprene Acute Toxicity: Fish: LC50 (trout): 760 ppb, (bluegill): > 370 ppb ((S)-Methoprene); Aquatic invertebrates: LC50 (Daphnia): 360 ppb ((S)-Methoprene) Etofenprox Acute Toxicity: Rainbow trout: LC50 = 3.3 ppb Bluegill: LC50 = 8.5 ppb Piperonyl butoxide Acute Toxicity: Rainbow trout: LC50 = 6.12 ppm Bluegill: LC50 = 8.5 ppb 5.37 ppm Sheepshead minnow: LC50 = 3.94 ppm Mysid shrimp: LC50 = 0.32 ppm

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

NOT REGULATED VIA HIGHWAY OR RAIL Consumer Commodity ORM-D-AIR Air transport within U.S. Freight Classification: Insecticides Spray

Additional Transport Information

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.