



Safety Data Sheet

Section 1: Identification

Product identifier

Product Name

- **Adams Flea & Tick Home & Carpet Spray**

Synonyms

- 100522362; EPA Reg. No. 2724-702-270

Product Description

- Water-white to white fan aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Insect growth regulator. Insecticide.

Restrictions on use

- Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Avoid inhalation of vapors or fumes.

Details of the supplier of the safety data sheet

Manufacturer

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

www.farnam.com

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

- Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Flammable Aerosols 2

Label elements

OSHA HCS 2012

WARNING



Hazard statements • Flammable aerosol

May cause drowsiness or dizziness

Precautionary statements

- Prevention** • Avoid breathing dust, fume, gas, mist, vapors and/or spray.
Use only outdoors or in a well-ventilated area.
Do not spray on an open flame or other ignition source.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Pressurized container: Do not pierce or burn, even after use.
- Response** • IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Other hazards

OSHA HCS 2012

- Toxic to aquatic organisms and bees, silkworms and other domestic insects and animals.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

Composition		
Chemical Name	Identifiers	%
Pyriproxyfen	CAS:95737-68-1	0.02%
Prallethrin	CAS:23031-36-9	0.3%
Etofenprox	CAS:80844-07-1	0.5%
N-Octyl Bicycloheptene Dicarboximide	CAS:113-48-4	0.5%
Butane	CAS:106-97-8	7.5%
Propane	CAS:74-98-6	7.5%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	10.4%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

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. Get medical attention if symptoms occur.
- Ingestion**
- IF SWALLOWED: Do not induce vomiting unless told to do so by a poison control center or doctor. Call a physician or poison control center if you feel unwell.

Most important symptoms and effects, both acute and delayed

- May cause dizziness and/or drowsiness if inhaled. 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**
- In case of fire use media as appropriate for surrounding fire.

- Unsuitable Extinguishing Media**
- No data available

- Firefighting Procedures**
- Do not allow fire fighting water to escape into waterways or sewers. Firefighters should wear full protective clothing including self contained breathing apparatus. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards. Move containers from fire area if you can do it without risk. Ventilate closed spaces before entering.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Containers may explode when heated. Flammable; may be ignited by heat, sparks or flames.

- 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**
- Ventilate the area. Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Use appropriate Personal Protective Equipment (PPE).

- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid unnecessary personnel and equipment traffic in the spill area. Ventilate closed spaces before entering.

Environmental precautions

- Avoid release to the environment. Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Prevent runoff from entering drains, sewers, and streams. Do not flush to sewer or allow to enter waterways. Keep away from fire, sparks and heated surfaces.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Wear appropriate personal protective equipment, avoid direct contact. Contents under pressure, do not crush, puncture or incinerate. Do not use or store near heat or open flame. Keep away from heat, sparks, and flame – No Smoking. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F Keep away from fire, sparks and heated surfaces. Do not store or ship under freezing conditions. NFPA Aerosol Classification: Level 1.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure controls

Engineering Measures/Controls

- Non-Household Setting: Use in a well ventilated area. Use safety glasses. If airborne mist hazard exists use gloves and other protective clothing to prevent skin contact.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

- Wear safety glasses.

Hands

- Wear protective gloves .

Skin/Body

- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	Water-white to white fan aerosol spray.

Color	Water-white to white.	Odor	No data available.
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	No data available
Specific Gravity/Relative Density	= 0.91 Water=1	Water Solubility	No data available
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	15 %
Flammability			
Flash Point	No data available	UEL	No data available
LEL	No data available	Autoignition	No data available
Heat of Combustion (ΔH_c)	17.4 kJ/g	Flame Extension	0 in
Flammability (solid, gas)	Flammable aerosol.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable

Possibility of hazardous reactions

- Hazardous polymerization will not occur. Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid

- Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials

- Strong oxidizers.

Hazardous decomposition products

- No data available

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Adams Flea & Tick Home & Carpet Spray	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • >2.07 mg/L 4 Hour (s); Skin-Rat LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Mild irritation

GHS Properties	Classification
	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute

Acute toxicity	Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
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 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

- Acute (Immediate)**
 - May cause respiratory irritation. May cause drowsiness and dizziness.
- Chronic (Delayed)**
 - No data available

Skin

- Acute (Immediate)**
 - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)**
 - Prolonged and repeated exposure to Etofenprox can cause skin irritation.

Eye

- Acute (Immediate)**
 - Under normal conditions of use, no health effects are expected.
- 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

- Etofenprox has been found negative for mutagenicity potential using the Ames test, chromosomal aberration and micronucleus test methods. Pyriproxyfen has been tested and found negative for mutagenicity potential. Prallethrin is not a mutagen. N-octyl bicycloheptene dicarboximide was concluded to be negative in the CHO chromosome aberration assay.

Carcinogenic Effects

- Etofenprox is not classified as carcinogen by NTP, IARC and OSHA. Pyriproxyfen is not classified as a carcinogen by IARC, NTP or OSHA. Prallethrin is not classified as carcinogen by NTP, IARC and OSHA. N-octyl bicycloheptene dicarboximide is not listed by IARC, NTP, OSHA or ACGIH as a carcinogen. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects

- Etofenprox did not produce teratogenic or reproductive effects in laboratory experiments. Pyriproxyfen is not a teratogen. Prallethrin is not a reproductive toxicant. N-octyl bicycloheptene dicarboximide has been tested and is not a reproductive toxin.

Section 12 - Ecological Information

Toxicity

Components		
Etofenprox (0.5%)	80844-07-1	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Sheepshead minnow</i> >0.0165 mg/L [Acute] 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.0027 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0008 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0000188 mg/L [Acute] NOEC Water Flea <i>Daphnia magna</i> 0.00017 mg/L [Chronic]
Pyriproxyfen (0.02%)	95737-68-1	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow trout</i> >0.325 mg/L [Acute] 96 Hour(s) LC50 <i>Blue gill</i> >0.27 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> >1.02 mg/L [Acute] LC50 <i>Rainbow trout</i> 0.09 mg/L [Chronic] Aquatic Toxicity-Crustacea: Water Flea <i>Daphnia magna</i> 0.0054 mg/L [Chronic] 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.4 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> >0.092 mg/L [Acute]
N-Octyl Bicycloheptene Dicarboximide (0.5%)	113-48-4	Aquatic Toxicity-Fish: LC50 1.4-2.4 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 2.3 mg/L [Acute]
Prallethrin (0.3%)	23031-36-9	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.012 mg/L [Acute] 96 Hour(s) LC50 <i>Blue Gill</i> 0.022 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead Minnow</i> 0.026 mg/L [Acute] NOEC <i>Rainbow Trout</i> 0.003 mg/L [Chronic] Aquatic Toxicity-Crustacea: NOEC <i>Daphnia magna</i> 0.00065 mg/L [Chronic] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.0062 mg/L [Acute]

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

Potential Environmental Effects

- No data available.

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. Do not contaminate water when disposing of equipment washwaters or rinsate. Never place unused product down any indoor or outdoor drain. Do not puncture or incinerate.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. If empty: Place in trash or offer for recycling if available.

Section 14 - Transport Information

UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards

DOT	UN1950	Aerosols, flammable, (each not exceeding 1 L capacity)	2.1	NDA	Marine Pollutant
IMO/IMDG	UN1950	Aerosols	2.1	NDA	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	2.1	NDA	Acute Aquatic Toxicity

Special precautions for user • No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

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 THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION: Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Repeated exposure to etofenprox can cause skin irritation.

First Aid

IF ON SKIN OR CLOTHING • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for further treatment advice.

Physical or Chemical Hazards

Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Use adequate ventilation during use. Do not smoke while using this product. Do not use this product in or on electrical equipment due to the possibility of shock hazard. Do not allow product to freeze.

Inventory		
Component	CAS	TSCA
Butane	106-97-8	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes

Etofenprox	80844-07-1	No
N-Octyl Bicycloheptene Dicarboximide	113-48-4	No
Prallethrin	23031-36-9	No
Propane	74-98-6	Yes
Pyriproxyfen	95737-68-1	No

Section 16 - Other Information

Revision Summary

Revision Date	MSDS Number	Changes
30/August/2016		• Section 3 changed: formulation change.

Revision Date • 30/August/2016

Last Revision Date • 23/August/2012

Preparation Date • 11/August/2011

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