



Safety Data Sheet

Section 1: Identification

Product identifier

- Product Name** • **Adams Plus Flea & Tick Spray**
- Synonyms** • 100511009; 100511010; EPA Reg. No.: 2724-797-270; RF2063 Pet Spray
- Product Description** • Transparent pale yellow liquid spray.

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

- Recommended use** • Flea and tick spray
- Restrictions on use** • Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Keep out of reach of children. See Section 15 for additional information.

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** • Flammable Liquids 3
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Eye Mild Irritation 2B

Label elements

OSHA HCS 2012

WARNING



- Hazard statements** • May cause drowsiness or dizziness
Flammable liquid and vapor.

Causes eye irritation

Precautionary statements

- Prevention** • Ground and/or bond container and receiving equipment.
Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
Keep container tightly closed.
Take precautionary measures against static discharge.
Use explosion-proof electrical/ventilating/lighting/equipment.
Use only non-sparking tools.
Avoid breathing dust, fume, gas, mist, vapours and/or spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
- Response** • Call a POISON CENTER or doctor/physician if you feel unwell.
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
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.
In case of fire: Use appropriate media Water fog, foam, dry chemical or CO2 for extinction.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
Keep cool.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

See Section 12 for Ecological Information.

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	0.27%
Etofenprox	CAS:80844-07-1	0.5%
Piperonyl butoxide	CAS:51-03-6	1.75%
Non hazardous ingredients	NDA	> 15%
2-Propanol, 1-methoxy	CAS:107-98-2	81.79%

See Section 11 for Toxicological Information.

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. Get medical attention if symptoms occur.
- Skin**
- In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. Call a physician or poison control center immediately.
- 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, DO NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed

- High vapor concentrations can cause narcotic effects (like dizziness and fatigue). Causes eye 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**
- SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.
 - LARGE FIRE: Water spray, fog or regular foam.

- Unsuitable Extinguishing Media**
- None known.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- Flammable liquid.

- Hazardous Combustion Products**
- None known.

Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
Wear positive pressure self-contained breathing apparatus (SCBA).
Water may be ineffective in firefighting due to low flash point. Burning liquid may float on water.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Do not walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate enclosed areas.

- Emergency Procedures**
- As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 feet) for solids. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.

Environmental precautions

- Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Stop leak if you can do it without risk.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
LARGE SPILLS: Dike far ahead of spill for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. Avoid contact with skin or eyes. Use only with adequate ventilation.

Conditions for safe storage, including any incompatibilities

Storage

- Keep away from fire, sparks and heated surfaces. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
2-Propanol, 1-methoxy (107-98-2)	STELs	100 ppm STEL	150 ppm STEL; 540 mg/m ³ STEL
	TWAs	50 ppm TWA	100 ppm TWA; 360 mg/m ³ TWA

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear chemical splash safety goggles.

Skin/Body

- Wear appropriate gloves.

Environmental Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Pale yellow liquid.
Color	Transparent pale yellow.	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	6.38
Specific Gravity/Relative Density	= 0.9544 @ 20 C(68 F) Water=1	Density	0.9544 g/mL
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		
Flammability			
Flash Point	41 C(105.8 F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	No data available		
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 under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

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

Incompatible materials

- Strong oxidizers.

Hazardous decomposition products

- Incomplete combustion may produce carbon monoxide and other toxic gases.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Adams Plus Flea & Tick Spray	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Skin-Rat LD50 • >5000 mg/kg; Irritation: Eye-Rabbit • Moderate irritation; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
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
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met

Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met

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

Potential Health Effects

Inhalation

- Acute (Immediate)** • 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)** • 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.

Section 12 - Ecological Information

Toxicity

Component	CAS	Data
Etofenprox (0.5%)	80844-07-1	Crustacea: 96 Hour(s) LC50 Crustacea 0.0000188 mg/L ; 48 Hour(s) LC50 Water Flea 0.0008 mg/L ; NOEC Water Flea 0.00017 mg/L ; Fish: 96 Hour(s) LC50 Fish 0.0165 mg/L ; 96 Hour(s) LC50 Fish 0.0027 mg/L
(s)-Methoprene (0.27%)	65733-16-6	Crustacea: NOEC Crustacea 0.014 mg/L [Chronic]; 48 Hour(s) LC50 Crustacea 0.36 mg/L [Acute]; Fish: 96 Hour(s) LC50 Fish 0.76 mg/L [Acute]; 96 Hour(s) LC50 Fish >0.37 mg/L [Acute]; NOEC Fish 0.048 mg/L [Chronic]
Piperonyl butoxide (1.75%)	51-03-6	Crustacea: Crustacea 0.047 mg/L [Chronic LOEC]; 48 Hour(s) LC50 Crustacea 0.51 mg/L [Acute]; 48 Hour(s) LC50 Crustacea 0.49 mg/L [Acute]; NOEC Crustacea 0.03 mg/L [Chronic]; Fish: 96 Hour(s) LC50 Fish 1.9 mg/L [Acute]; 96 Hour(s) LC50 Fish 3.94 mg/L [Acute]; NOEC Fish 0.04 mg/L [Chronic]; Fish 0.11 mg/L [Chronic LOEC]

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

Other adverse effects

- No studies have been found.

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. Never place unused product down any indoor or outdoor drain.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not reuse or refill this container.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	None	Consumer Commodity	ORM-D	Not Applicable	Not Applicable
	UN1993	Flammable Liquids, N.O.S., (contains 2-propanol, 1-methoxy)	3	III	Marine Pollutant
IMO/IMDG	UN1993	Flammable Liquids, N.O.S., (contains 2-propanol, 1-methoxy)	3	III	Marine Pollutant
IATA/ICAO	UN1993	Flammable Liquids, N.O.S., (contains 2-propanol, 1-methoxy)	3	III	Acute Aquatic Toxicity

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Other information

IMO/IMDG • Limited quantity 5L, excepted quantity 30mL

IATA/ICAO • Limited quantity 5L, excepted quantity 30mL

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • SARA Title III Section 313, 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:** 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. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Repeat exposure to etofenprox can cause skin irritation.

HAZARDS TO DOMESTIC ANIMALS: Do not use on puppies less than 10 weeks or kittens less than 12 weeks old. For external use only. Drooling maybe observed for a short period of time immediately following product application. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals, or animals on medications. Avoid contact with eyes. Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Cats: In some cases, excessive salivation and ear and paw flicking may occur; however, these effects are temporary and not harmful.

First Aid • **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 eye. Call a poison control center or doctor for treatment advice.

Physical or Chemical Hazards • Combustible.
Do not use or store near heat or open flame

- **PESTICIDE STORAGE:** Keep this product in its tightly closed original container, when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and pets.

CONTAINER DISPOSAL: Do not reuse empty cartridge [vial][tube]. If empty: Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Inventory		
Component	CAS	TSCA
(s)-Methoprene	65733-16-6	No
2-Propanol, 1-methoxy	107-98-2	Yes
Etofenprox	80844-07-1	No
Piperonyl butoxide	51-03-6	Yes

Section 16 - Other Information

- Revision Date** • 11/August/2015
- Last Revision Date** • 11/August/2015
- Preparation Date** • 11/August/2015
- Disclaimer/Statement of Liability** • The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**

Key to abbreviations

NDA = No Data Available