

# MATERIAL SAFETY DATA SHEET

## ADAMS FLY SPRAY AND REPELLENT

Page: 1  
Printed: 09/11/2012  
Revision: 09/11/2012  
Supercedes Revision: 01/22/2009

### 1. Product and Company Identification

**Product Code:** 270-347-43591  
**Product Name:** ADAMS FLY SPRAY AND REPELLENT  
**Manufacturer Information**  
**Company Name:** Distributed by:  
Veterinary Products Laboratories  
P.O. Box 34820  
Phoenix, AZ 85067-4820  
**Emergency Contact:** CHEMTREC (800)424-9300  
**Information:** (888)241-9545  
**Preparer Name:** Sherry Faith  
**Revision Date:** 09/11/2012

#### Additional Identity Information

8792 1-qt

### 2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA PEL	ACGIH TLV
1. N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	< 5.0 %	No data.	No data.
2. Dipropyl isocinchomeronate	136-45-8	< 5.0 %	No data.	No data.
3. Piperonyl butoxide	51-03-6	< 1.0 %	No data.	No data.
4. Permethrin	52645-53-1	< 1.0 %	No data.	No data.
5. PROPYLENE GLYCOL	57-55-6	< 5.0 %	No data.	No data.
6. Pyrethrins and Pyrethroids	8003-34-7	< 1.0 %	5 mg/m3	5 mg/m3

### 3. Hazards Identification

#### Emergency Overview

**HUMAN:** Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wear waterproof gloves. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not contaminate foodstuffs. Do not smoke while using.

#### Potential Health Effects (Acute and Chronic)

No data available.

#### Signs and Symptoms Of Exposure

PRIMARY ROUTES OF EXPOSURE:

**INHALATION:** Mist or vapor is not expected to be toxic with normal use of this product. However, inhalation should be avoided.

**INGESTION:** Ingestion is not expected during normal use. However, ingestion should be avoided.

**SKIN CONTACT:** Irritation or allergic skin reaction are not expected after direct contact. However, skin contact should be avoided.

**EYE CONTACT:** AVOID EYE CONTACT. Irritation may occur following direct contact. symptoms might include redness, swelling, or discharge.

#### Medical Conditions Generally Aggravated By Exposure

No data available.

## 4. First Aid Measures

### Emergency and First Aid Procedures

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.

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 treatment advice.

### Note to Physician

This material contains pyrethrin and permethrin insecticides. In cases of over exposure, consult a poison control center for additional information pyrethrin poisoning and treatment. Treat symptomatically.

## 5. Fire Fighting Measures

**Flash Pt:** 65.00 F Method Used: Cleveland Closed Cup  
**Explosive Limits:** LEL: No data. UEL: No data.  
**Autoignition Pt:** ~ 460.00 F

### Fire Fighting Instructions

Self-contained breathing apparatus and full protective equipment are recommended for Firefighters. Toxic or corrosive gases can be expected in fires of this material.

### Flammable Properties and Hazards

Flammable liquid. Vapors are heavier than air and may travel to a flame or point of ignition. Keep away from heat and open flame. Do not apply to painted or finished wood surfaces.

### Hazardous Combustion Products

None known

### Extinguishing Media

Water, carbon dioxide or foam suitable for surrounding type of fire.

### Unsuitable Extinguishing Media

None known

## 6. Accidental Release Measures

### Steps To Be Taken In Case Material Is Released Or Spilled

FOR LARGE SPILLS: Isolate the spill area, restrict access and post the area for hazards present (flammable liquid, eye irritant) and necessary precautions. Extinguish open flames and shut off sources of ignition. Wear appropriate protective equipment to avoid skin contact and eye contact. Avoid sparks and open flames. Mix with sand or absorbent material and scoop or shovel into a suitable, properly labeled container for recovery or disposal.

## 7. Handling and Storage

### Precautions To Be Taken in Handling

Use with adequate ventilation. Store away from incompatible material.

### Precautions To Be Taken in Storing

Store in a cool, dry area away from heat and open flame. Do not contaminate water, food or feed by storage or disposal. Do not transfer contents to other containers.

## 8. Exposure Controls/Personal Protection

### Respiratory Equipment (Specify Type)

Not normally necessary.

### Eye Protection

Glasses or goggles are recommended if eye contact is possible.

# MATERIAL SAFETY DATA SHEET

## ADAMS FLY SPRAY AND REPELLENT

Page: 3  
Printed: 09/11/2012  
Revision: 09/11/2012  
Supersedes Revision: 01/22/2009

### Protective Gloves

Avoid skin contact or wear impervious gloves when handling this material.

### Other Protective Clothing

Wear clothing with long sleeves to avoid skin contact.

### Engineering Controls (Ventilation etc.)

No data available.

### Work/Hygienic/Maintenance Practices

Wash hands and arms thoroughly after handling this material. Clean up spills immediately.

### Additional Exposure Control Information

Pyrethrum:

SmithKline Beecham (PEL/EG): No exposure Limit Established.

United Kingdom (HSE): 5 mg/m<sup>3</sup> (8hr. TWA) 10 mg/m<sup>3</sup> (10 min STEL)

United States: (ACGIH): 5 mg/m<sup>3</sup> ACGIH TWA

United States (OSHA): 5 mg/m<sup>3</sup> OSHA TWA

## 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas	[ X ] Liquid	[ ] Solid
<b>Melting Point:</b>	< -14.00 C		
<b>Boiling Point:</b>	85.00 C - 86.00 C		
<b>Autoignition Pt:</b>	~ 460.00 F		
<b>Flash Pt:</b>	65.00 F	Method Used: Cleveland Closed Cup	
<b>Specific Gravity (Water = 1):</b>	0.93	at 26.0 C	
<b>Vapor Pressure (vs. Air or mm Hg):</b>	No data.		
<b>Vapor Density (vs. Air = 1):</b>	No data.		
<b>Evaporation Rate:</b>	1.26		
<b>Solubility in Water:</b>	No data.		
<b>Solubility Notes</b>	Completely miscible in water.		
<b>Percent Volatile:</b>	No data.		
<b>pH:</b>	5.2 - 5.8		

### Appearance and Odor

Yellow liquid with an alcohol and perfume odor.

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]

### Conditions To Avoid - Instability

Avoid heat, open flames, and incompatibles.

### Incompatibility - Materials To Avoid

Incompatible with strong oxidizing agents such as household bleach, anhydrides, isocyanates, and organometallics.

### Hazardous Decomposition Or Byproducts

None

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

### Conditions To Avoid - Hazardous Polymerization

No data available.

## 11. Toxicological Information

### Toxicological Information

**ORAL TOXICITY:** The oral LD50 of this material in rats was greater than 5000 mg/kg. No lethality occurred up to 14 days after a single, oral treatment of 5000 mg/kg.

**INHALATION TOXICITY:** The inhalation of this material in rats was greater than 5.48 mg/l. No lethality occurred up to 14 days after a 4-hour exposure to 5.48 mg/l mist.

**DERMAL TOXICITY:** The dermal toxicity of this material in rats was greater than 2000 mg/kg. No lethality occurred up to 14 days after a 24-hour exposure to 2000 mg/kg.

**SKIN IRRITATION:** This mixture was classified as a mild irritant to rabbit skin. Erythema and swelling occurred at least 72 hours after direct application for 4 hours in rabbits. Skin appeared normal 7 days after treatment.

**EYE IRRITATION:** This mixture was classified as a mild to moderate irritant to rabbit eyes. Iritis or redness, swelling and discharge in the conjunctive occurred for at least 21 days after direct application in rabbits.

**SENSITIZATION:** This mixture, tested as a 75% dilution in water, was classified as a non sensitizer in guinea pig skin. No adverse reaction or sensitization occurred in guinea pigs used to test for allergic reaction or sensitization (Modified Buehler Test).

### Chronic Toxicological Effects

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE	113-48-4	n.a.	n.a.	n.a.	n.a.
2. Dipropyl isocinchomeronate	136-45-8	n.a.	n.a.	n.a.	n.a.
3. Piperonyl butoxide	51-03-6	n.a.	3	n.a.	n.a.
4. Permethrin	52645-53-1	n.a.	3	n.a.	n.a.
5. PROPYLENE GLYCOL	57-55-6	n.a.	n.a.	n.a.	n.a.
6. Pyrethrins and Pyrethroids	8003-34-7	n.a.	n.a.	A4	n.a.

### Additional Toxicological Information

**REPRODUCTIVE EFFECTS:** Components of this mixture produced adverse reproductive effects in rats at high dose levels.

**OTHER:** Components of this mixture may effect liver or central nervous systems.

## 12. Ecological Information

### General Ecological Information

This product is toxic to aquatic organisms, including fish and invertebrates. Do not contaminate water when disposing of equipment wash-water or rinsate.

## 13. Disposal Considerations

### Waste Disposal Method

Do not reuse empty containers. Rinse thoroughly and securely wrap original container in several layers of newspaper and discard or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Observe all federal, state, and local regulations when disposing of this material.

Nonrefillable container. Do not reuse or refill this container. Never place unused product down any indoor or outdoor drain.

## 14. Transport Information

### LAND TRANSPORT (US DOT)

**DOT Proper Shipping Name** (Isopropanol Solution) LTD. QTY.

**DOT Hazard Class:** 3

**MATERIAL SAFETY DATA SHEET**  
**ADAMS FLY SPRAY AND REPELLENT**

Page: 5  
Printed: 09/11/2012  
Revision: 09/11/2012  
Supercedes Revision: 01/22/2009

**DOT Hazard Label:** FLAMMABLE LIQUID  
**UN/NA Number:** UN1219  
**Packing Group:** II

**Additional Transport Information**

No data available.

**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.