SAFETY DATA SHEETS

This SDS packet was issued with item:

078366346

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

078469233

MATERIAL SAFETY DATA SHEET ENDURE SWEAT-RESISTANT FLY SPRAY FOR HORSES-VPL



Printed: 01/26/2011 Revision: 01/26/2011 Supercedes Revision: 04/20/2009 Date Created: 11/04/1993

Page: 1

1. Product and Company Identification

Product Code: 270-251-V

Product Name: ENDURE SWEAT-RESISTANT FLY SPRAY FOR HORSES-VPL

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
Chemical Family: compound

Additional Identity Information

3003242 1-qt 3004324 1-gal

2. Composition/Information on Ingredients

No hazardous ingredients.

3. Hazards Identification

Emergency Overview

KEEP OUT OF REACH OF CHILDREN

Harmful if swallowed. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. Avoid contamination of food. May be irritating to eyes and mucous membranes. Avoid breathing spray or mist.

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

Potential Health Effects (Acute and Chronic)

May be irritating to eyes and mucous membranes. Avoid breathing spray or mist.

Recommended Exposure Limits

NE

LD 50 / LC 50

NE

Signs and Symptoms Of Exposure

No data available

Medical Conditions Generally Aggravated By Exposure

No data available

4. First Aid Measures

Emergency and First Aid Procedures

IF SWALLOWED: Contact a physician or Poison Control Center immediately. 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 INHALED: Remove patient to fresh air. If person is not breathing, call 911, or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advise.

IF IN EYES: Hold eye open and rinse slowly and gently water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advise.

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IF ON SKIN: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advise. Remove contaminated clothing and wash skin with soap and water. Take of contaminated clothing and launder contaminated clothing thoroughly before reuse.

5. Fire Fighting Measures

Flash Pt: N.A.

Explosive Limits: LEL: NE UEL: NE

Fire Fighting Instructions

Do not contaminate water by cleaning of equipment. Fight pesticide fires from upwind. Use SCBA. Dike area to prevent runoff into sewers and waterways.

Flammable Properties and Hazards

Water spray may increase area of contamination. Equipment and materials used to fight pesticide fires may require decontamination before reuse.

Extinguishing Media

CO2, Foam.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Soak spill in dry carrier such as sawdust and shovel into disposal containers. Rinse area with water and detergent, absorbing detergent into dry carrier and shoveling into disposal containers.

7. Handling and Storage

Precautions To Be Taken in Handling

Avoid contact with eyes or mucous membranes. Avoid contact with skin or clothing. Wash hands with soap and water after use.

Precautions To Be Taken in Storing

Store in cool, dry place inaccessible to children. Store away from incompatible material.

Other Precautions

KEEP OUT OF REACH OF CHILDREN Keep out of water sources.

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

If high concentrations - self contained breathing apparatus (NIOSH/MSHA approved respirator).

Eye Protection

Goggles or face shield

Protective Gloves

Neoprene gloves

Engineering Controls (Ventilation etc.)

Local exhaust is sufficient.

Work/Hygienic/Maintenance Practices

Wash hands before eating, smoking or using restroom.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Melting Point:NABoiling Point:NAAutoignition Pt:No data.

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Flash Pt: N.A.

Explosive Limits: LEL: NE UEL: NE

Specific Gravity (Water = 1): 0.998 at 27.0 C

Density: NE
Bulk density: NA
Vapor Pressure (vs. Air or mm Hg): N.A.
Vapor Density (vs. Air = 1): N.A.
Evaporation Rate (vs Butyl N.A.

Acetate=1):

pH:

Solubility in Water: No data.

Solubility Notes miscible

Percent Volatile:

Saturated Vapor Concentration:

Viscosity:

Heat Value:

NA

Particle Size:

NA

Corrosion Rate:

NA

NA

NA

Appearance and Odor
No data available.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

5.8

Conditions To Avoid - Instability

Heat, sunlight

Incompatibility - Materials To Avoid

Oxidizers

Hazardous Decomposition Or Byproducts

HCl, CO, CO2.

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

Conditions To Avoid - Hazardous Polymerization

Will not occur

11. Toxicological Information

No data available

Chronic Toxicological Effects

No data available

Carcinogenicity/Other Information

No data available.

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

12. Ecological Information

Toxic to fish. Do not apply to any body of water. Do not contaminate water when disposing of equipment washwaters.

13. Disposal Considerations

Waste Disposal Method

Dispose of according for Federal, State or local regulations. This product is toxic to fish. Keep out of lakes, streams and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

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14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name Not regulated as hazardous by U.S. DOT.

DOT Hazard Label: None

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.

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name • ENDURE Sweat-Resistant Fly Spray for Horses

Synonyms

100502139; 100526253; 100526254; 3002221; 3002431; 3003242; 3004324; EPA

Reg. No.: 270-251

Product Description • Milky white liquid.

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

Recommended use • Insecticide.

Restrictions on use •

Avoid contact with eyes, skin or clothing. Use in well ventilated area. Keep out of

reach of children.

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 • Eye Mild Irritation 2B

Label elements
OSHA HCS 2012

WARNING

Hazard statements • Causes eye irritation

Precautionary statements

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OSHA HCS 2012

Prevention • Wash thoroughly after handling.

Response •

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.

Other hazards
OSHA HCS 2012

This product is extremely toxic to fish and aquatic vertebrates. This product is toxic to bees exposed to direct treatment on blooming crops or weeds.

Section 3 - Composition/Information on Ingredients

Substances

Material does not meet the criteria of a substance.

Mixtures

Composition				
Chemical Name	Identifiers	%		
Pyrethrin	CAS:8003-34-7	0.2%		
Butoxypolypropylene glycol	CAS:9003-13-8	5%		
Cypermethrin	CAS:52315-07-8	0.15%		
Piperonyl butoxide	CAS:51-03-6	1.6%		
Other ingredients	NDA	93.05%		

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

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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 irritation or rash 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. If eye irritation persists: Get medical advice/attention.

Ingestion

IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

• Causes mild 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.

Firefighting Procedures

Do not allow fire fighting water to escape into waterways or sewers.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion

Hazards

Hazardous Combustion Products

No data available.

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

Avoid contact with skin, eyes, and clothing. Ventilate enclosed areas. Avoid breathing

fumes.

Emergency Procedures

Stay upwind. Avoid release into the environment. Do not allow runoff into water, storm

drains or drainage ditches. Ventilate closed spaces before entering.

Environmental precautions

Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up

Measures

Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

Use good safety and industrial hygiene practices. 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 cool, dry, secure place. Keep out of reach of children. Keep only in the original container. Store pesticides away from food, pet food, feed, seed, fertilizers,

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and veterinary supplies.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines No data available.

Exposure Limits/Guidelines					
	Result ACGIH NIOSH OSHA				
Pyrethrin (8003-34-7)	TWAs	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA	

Exposure Limits Supplemental

ACGIH

•Pyrethrin (8003-34-7): TLV Basis - Critical Effects: (liver damage; lower respiratory tract irritation)

Exposure controls

Engineering

Local exhaust ventilation.

Measures/Controls

Personal Protective Equipment

Pictograms





Respiratory

If prolonged exposure is anticipated, it is recommended for handlers to wear an approved MSHA/NIOSH organic vapor/pesticide respirator.

Eye/Face

If prolonged exposure is anticipated, it is recommended for handles to wear goggles.

Hands

If prolonged exposure is anticipated, it is recommended for handlers to wear impervious gloves.

Skin/Body

If prolonged exposure is anticipated, it is recommended for handlers to wear

appropriate clothing to prevent skin contact.

Environmental Exposure Controls

Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description					
Physical Form	Liquid	Appearance/Description	Milky white liquid.		
Color	Milky white.	Odor	Mild solvent.		
Odor Threshold	No data available	Physical and Chemical Properties	No data available		
General Properties	•	•			
Boiling Point	No data available	Melting Point/Freezing Point	No data available		
Decomposition Temperature	No data available	рН	5.8		

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Specific Gravity/Relative Density	= 0.998 Water=1	Water Solubility	Not soluble
Viscosity	< 100 Centipoise (cPs, cP) or mPas	Explosive Properties	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	No flash to boil	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 data available.

Chemical stability

Stable

Possibility of hazardous reactions

· Hazardous polymerization will not occur.

Conditions to avoid

· Excessive heat.

Incompatible materials

Strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

Decomposes upon heating to produce toxic gases which may include: hydrogen chloride, carbon oxides.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
ENDURE Sweat-Resistant Fly Spray for Horses	NDA	Acute Toxicity: Ingestion/Oral-Rat • >5000 g/kg; Inhalation-Rat • >5000 mg/L 4 Hour (s); Skin-Rabbit • >2000 g/kg; Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
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
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Eye Mild Irritation 2B
·	

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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 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

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

Chronic (Delayed)

• Under normal conditions of use, no health effects are expected.

Skin

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

• Under normal conditions of use, no health effects are expected.

Eye

Acute (Immediate) • May cause mild irritation.

• Under normal conditions of use, no health effects are expected.

Ingestion

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

• Under normal conditions of use, no health effects are expected.

Section 12 - Ecological Information

Toxicity

	Components				
Pyrethrin (0.2%)	8003-34-7	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Rainbow trout 0.0051 mg/L [Acute] 96 Hour(s) LC50 Sheepshead minnow 0.016 mg/L [Acute] 96 Hour(s) NOEC Fathead minnow 0.0019 mg/L [Chronic] NOEC Sheepshead minnow 0.0059 mg/L [estimated chronic] Aquatic Toxicity-Crustacea: NOEC Daphnia magna 0.00086 mg/L [Chronic] NOEC Mysid shrimp 0.0001 mg/L [Estimated chronic] 96 Hour(s) LC50 Mysid Shrimp 0.0014 mg/L [Acute] 48 Hour(s) LC50 Water Flea Daphnia magna 0.0116 mg/L [Acute]			
Piperonyl butoxide (1.6%)	51-03-6	Aquatic Toxicity-Fish: 96 Hour(s) LC50 Rainbow Trout 1.9 mg/L [Acute] 96 Hour(s) LC50 Sheephead minnow 3.94 mg/L [Acute] NOEC Fathead minnow 0.04 mg/L [Chronic] Fathead minnow 0.11 mg/L [Chronic LOEC] Aquatic Toxicity-Crustacea: Daphnia magna 0.047 mg/L [Chronic LOEC] 48 Hour(s) LC50 Daphnia magna 0.51 mg/L [Acute] 48 Hour(s) LC50 Mysid shrimp 0.49 mg/L [Acute] NOEC Daphnia magna 0.03 mg/L [Chronic]			

Persistence and degradability

· No data available.

Bioaccumulative potential

No data available.

Mobility in Soil

No data available.

Other adverse effects

Potential Environmental **Effects**

This product is extremely toxic to fish and aquatic vertebrates. This product is highly toxic to bees.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

Never place unused product down any indoor or outdoor drain. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

If empty: Nonrefillable container. Do not reuse or refill container. Offer for recycling, ifavailable. If partly filled: Call your local solid waste agency for disposal instructions. Neverplace unused product down any indoor or outdoor drain. Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	UN3082	Packages 500 lbs.or greater: Environmentally hazardous substance, liquid, n.o.s. (Pyrethrins, Cypermethrin)	9	=	RQ: Pyrethrins = 1 lb.
IMO/IMDG	UN 3082	Packaging 5 L or greater: Environmentally Hazardous Substance, liquid, n.o.s. (Pyrethrins, Cypermethrin)	9	III	Marine Pollutant
IATA/ICAO	UN 3082	Packaging 5 L or greater: Environmentally Hazardous Substance, liquid, N.O.S. (Pyrethrins, Cypermethrin)	9	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

· 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 • SARA Title III Section 313

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 nonpesticide 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 AND DOMESTIC ANIMALSCAUTIONHUMANS: Harmful if inhaled. Avoid breathing spray mist. Causes moderate eye irritation. Avoid contact with skin eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear long sleeved shirt and long pants, socks and shoes and chemical-resistant gloves made of any waterproof material.HORSES: Do not allow product to contact animal's eyes, nose, mouth, or sores during application. Do not use on foals under 12 weeks. Use only in well-ventilated areas. User Safety Recommendations: User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

First Aid •

IF INHALED • Move person to fresh air • If person is not breathing call 911 or an ambulance • Call a poison control center or doctor immediately for treatment advice then give artificial respiration, preferably by mouth-to-mouth, if possible • Call a poison control center or doctor for further treatment adviceIF 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 treatmentadvice 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 immediately for treatment adviceIF SWALLOWED • 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

Environmental Hazards •

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

	Inventory			
Component	CAS	TSCA		
Cypermethrin	52315-07-8	No		
Piperonyl butoxide	51-03-6	Yes		
Butoxypolypropylene glycol	9003-13-8	Yes		
Pyrethrin	8003-34-7	No		

United States

Environment		
U.S CERCLA/SARA - Hazardous Substances and their Rep	ortable Quantities	
Cypermethrin	52315-07-8	Not Listed
Butoxypolypropylene glycol	9003-13-8	Not Listed
		1 lb final RQ (listed under
Pyrethrin	8003-34-7	Pyrethrins); 0.454 kg final RQ
		(listed under Pyrethrins)
Piperonyl butoxide	51-03-6	Not Listed
J.S CERCLA/SARA - Section 313 - Emission Reporting		
Cypermethrin	52315-07-8	Not Listed
Butoxypolypropylene glycol	9003-13-8	Not Listed
Pyrethrin	8003-34-7	Not Listed
Piperonyl butoxide	51-03-6	1.0 % de minimis concentration

Section 16 - Other Information

Revision Summary			
Revision Date	MSDS Number	Changes	
22/February/2018	•	Section 14 changed. Updated DOT shipping description	

Revision Date

Last Revision Date

Preparation Date

• 22/February/2018

• 08/September/2016

• 16/February/2015

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