

## Safety Data Sheet



### Section 1: Identification

#### Product identifier

**Product Name**

- **ENDURE Sweat-Resistant Fly Spray for Horses**

**Synonyms**

- 100502139; 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

#### 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**

**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

- 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** • No data available.

**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** • 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, and veterinary supplies.

## Section 8 - Exposure Controls/Personal Protection

### Control parameters

**Exposure Limits/Guidelines** • No data available.

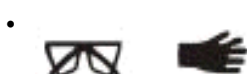
| Exposure Limits/Guidelines |        |             |             |             |
|----------------------------|--------|-------------|-------------|-------------|
|                            | Result | ACGIH       | NIOSH       | OSHA        |
| Pyrethrin<br>(8003-34-7)   | TWAs   | 5 mg/m3 TWA | 5 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 Measures/Controls**

- Local exhaust ventilation.

**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                  | pH                               | 5.8                 |
| 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 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat • >5000 g/kg; Inhalation-Rat • >5000 mg/L 4 Hour (s); Skin-Rabbit • >2000 g/kg;<br><b>Irritation:</b> Eye-Rabbit • Mild irritation; Skin-Rabbit • Essentially non-irritating |

| GHS Properties                       | Classification   |
|--------------------------------------|--|
| <b>Acute toxicity</b>                | <b>OSHA HCS 2012</b> • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met |
| <b>Skin corrosion/Irritation</b>     | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Serious eye damage/Irritation</b> | <b>OSHA HCS 2012</b> • Eye Mild Irritation 2B  |
| <b>Skin sensitization</b>            | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Respiratory sensitization</b>     | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Aspiration Hazard</b>             | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Carcinogenicity</b>               | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Germ Cell Mutagenicity</b>        | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>Toxicity for Reproduction</b>     | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>STOT-SE</b>                       | <b>OSHA HCS 2012</b> • Classification criteria not met   |
| <b>STOT-RE</b>                       | <b>OSHA HCS 2012</b> • 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.

**Chronic (Delayed)**

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

**Eye****Acute (Immediate)**

- May cause mild irritation.

**Chronic (Delayed)**

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

**Ingestion****Acute (Immediate)**

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

**Chronic (Delayed)**

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

**Section 12 - Ecological Information****Toxicity**

| Components                |           |  |
|---------------------------|-----------|--|
| Pyrethrin (0.2%)          | 8003-34-7 | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0051 mg/L [Acute]<br>96 Hour(s) LC50 <i>Sheepshead minnow</i> 0.016 mg/L [Acute]<br>96 Hour(s) NOEC <i>Fathead minnow</i> 0.0019 mg/L [Chronic]<br>NOEC <i>Sheepshead minnow</i> 0.0059 mg/L [estimated chronic]<br><b>Aquatic Toxicity-Crustacea:</b> NOEC <i>Daphnia magna</i> 0.00086 mg/L [Chronic]<br>NOEC <i>Mysid shrimp</i> 0.0001 mg/L [Estimated chronic]<br>96 Hour(s) LC50 <i>Mysid Shrimp</i> 0.0014 mg/L [Acute]<br>48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.0116 mg/L [Acute] |
| Piperonyl butoxide (1.6%) | 51-03-6   | <b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute]<br>96 Hour(s) LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute]<br>NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic]<br><i>Fathead minnow</i> 0.11 mg/L [Chronic LOEC]<br><b>Aquatic Toxicity-Crustacea:</b> <i>Daphnia magna</i> 0.047 mg/L [Chronic LOEC]<br>48 Hour(s) LC50 <i>Daphnia magna</i> 0.51 mg/L [Acute]<br>48 Hour(s) LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute]<br>NOEC <i>Daphnia magna</i> 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, if available. If partly filled: Call your local solid waste agency for disposal instructions. 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.

## Section 14 - Transport Information

|           | UN number | UN proper shipping name  | Transport hazard class(es) | Packing group | Environmental hazards  |
|-----------|-----------|--|----------------------------|---------------|------------------------|
| DOT       | UN3082    | Bulk packaging only: Environmentally hazardous substance, liquid, n.o.s. (Pyrethrins, Cypermethrin)      | 9                          | III           | Marine Pollutant       |
| 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 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 •

##### Hazards to Humans and Domestic Animals

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 advice. 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 immediately for treatment advice. IF 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 Reportable Quantities

|                              |            |  |
|------------------------------|------------|--|
| • Cypermethrin               | 52315-07-8 | Not Listed   |
| • Butoxypolypropylene glycol | 9003-13-8  | Not Listed   |
| • Pyrethrin                  | 8003-34-7  | 1 lb final RQ (listed under Pyrethrins); 0.454 kg final RQ (listed under Pyrethrins) |
| • Piperonyl butoxide         | 51-03-6    | Not Listed   |

#### U.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              |
|---------------|-------------|----------------------|
| 06/May/2016   |             | • Section 14 revised |

**Revision Date**

- 06/May/2016

**Last Revision Date**

- 16/February/2015

**Preparation Date**

- 16/February/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.