



# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

Issue date: 08/23/2016

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Version: 1.1

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Name : Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs  
Synonyms : 12101, EPA Reg. No.: 270-107

#### 1.2. Recommended use and restrictions on use

Recommended use : Insecticide. Repellent.  
Restrictions on use : Keep out of reach of children. Avoid contact with eyes, skin or clothing. Do not use or store near heat or open flame.

#### 1.3. Supplier

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

www.farnam.com

#### 1.4. Emergency telephone number

Emergency number : 1-800-234-2269  
1-800-424-9300 - CHEMTREC  
1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Flammable liquids Category 4 Combustible liquid

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Signal word (GHS US) : Warning  
Hazard statements (GHS US) : Combustible liquid  
Precautionary statements (GHS US) : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
In case of fire: Use media to extinguish.  
Store in a well-ventilated place. Keep cool.  
Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

#### 2.3. Other hazards which do not result in classification

Other hazards which do not result in classification : Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

| Name   | Product identifier  | %       |
|--|---------------------|---------|
| Pyrethrins   | (CAS-No.) 8003-34-7 | 0.4     |
| Piperonyl Butoxide   | (CAS-No.) 51-03-6   | 1       |
| Di-n-propyl Isocinchomeronate                                  | (CAS-No.) 136-45-8  | 1       |
| N-Octyl Bicycloheptene Dicarboximide                           | (CAS-No.) 113-48-4  | 0.4     |
| Mineral oil, white   | (CAS-No.) 8042-47-5 | 60 – 70 |
| Non-hazardous and/or does not meet criteria for classification | (CAS-No.) N/A       | Balance |

Comments : \* The exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of soap and water. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : 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 and attention.
- First-aid measures after ingestion : IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed to do so by medical personnel.

#### 4.2. Most important symptoms and effects (acute and delayed)

No additional information available

#### 4.3. Immediate medical attention and special treatment, if necessary

Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Avoid heavy hose streams.

#### 5.2. Specific hazards arising from the chemical

- Fire hazard : Combustible liquid. This material can burn but will not readily ignite. May release vapors when heated above flash point that can ignite when exposed to a source of ignition.
- Reactivity : Non-reactive under normal handling and storage conditions.

#### 5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Do not allow fire fighting water to escape into waterways or sewers. As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. Eliminate all ignition sources if safe to do so. Evacuate area. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering. Do not breathe gas/fumes/vapor/spray.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapors or fumes. Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: Exposure controls/personal protection.
- Emergency procedures : ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if safe to do so. Use grounded electrical/mechanical equipment. Evacuate unnecessary personnel. Stay upwind. Take precautionary measures against static discharge. Turn off electric power to area. Ventilate area. Do NOT wash away into sewer. Avoid release to the environment.

#### 6.2. Environmental precautions

Avoid release to the environment.

# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

### 6.3. Methods and material for containment and cleaning up

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep from freezing. Avoid long term exposure to air. Keep cool. Protect from sunlight. Keep only in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Strong acids. Strong oxidizing agents. Strong bases. Heat, sparks, open flame.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| Pyrethrins (8003-34-7)         |                |                        |
|--------------------------------|----------------|------------------------|
| ACGIH                          | ACGIH OEL TWA  | 5 mg/m <sup>3</sup>    |
| ACGIH                          | Remark (ACGIH) | Liver dam; LRT irr     |
| OSHA                           | OSHA PEL TWA   | 5 mg/m <sup>3</sup>    |
| IDLH                           | IDLH           | 5000 mg/m <sup>3</sup> |
| NIOSH                          | NIOSH REL TWA  | 5 mg/m <sup>3</sup>    |
| Mineral oil, white (8042-47-5) |                |                        |
| ACGIH                          | ACGIH OEL TWA  | 5 mg/m <sup>3</sup>    |
| ACGIH                          | ACGIH OEL STEL | 10 mg/m <sup>3</sup>   |
| OSHA                           | OSHA PEL TWA   | 5 mg/m <sup>3</sup>    |

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear chemical resistant gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

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

#### Respiratory protection:

In case of insufficient ventilation or if exposure limits are exceeded, use NIOSH approved respiratory protection.



# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                                  | : Liquid                               |
| Appearance                                      | : Hazy yellow liquid                   |
| Color   | : Yellow                               |
| Odor  | : Sweet                                |
| Odor threshold                                  | : No data available                    |
| pH  | : Not applicable - Immiscible in water |
| Melting point                                   | : Not applicable                       |
| Freezing point                                  | : No data available                    |
| Boiling point                                   | : No data available                    |
| Flash point                                     | : 91.7 °C (197.0 °F) Tag Closed Cup    |
| Relative evaporation rate (butyl acetate=1)     | : No data available                    |
| Flammability                                    | : Not applicable                       |
| Vapor pressure                                  | : No data available                    |
| Relative vapor density at 20°C                  | : No data available                    |
| Relative density                                | : 0.869 @ 20 °C (60 °F)                |
| Solubility                                      | : Immiscible                           |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                    |
| Auto-ignition temperature                       | : No data available                    |
| Decomposition temperature                       | : No data available                    |
| Viscosity, kinematic                            | : 96.7 cSt @ 40 °C (104 °F)            |
| Viscosity, dynamic                              | : 224 cPs @ 22.5 °C (72.5 °F)          |
| Explosion limits                                | : No data available                    |
| Explosive properties                            | : Not explosive                        |
| Oxidizing properties                            | : Not applicable                       |

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Non-reactive under normal handling and storage conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition. Protect from sunlight.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. May decompose upon heating to produce toxic vapors/gases.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

| Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs |                            |
|--|----------------------------|
| LD50 oral rat  | > 5000 mg/kg (female rats) |
| LD50 dermal rat  | > 5000 mg/kg               |
| LC50 Inhalation - Rat                                  | > 2.07 mg/l/4h             |

| GHS-US Properties | Classification |
|-------------------|----------------|
|-------------------|----------------|

# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

|  |                |
|--|----------------|
| Acute toxicity (oral)                              | Not classified |
| Acute toxicity (dermal)                            | Not classified |
| Acute toxicity (inhalation)                        | Not classified |
| Skin corrosion/irritation                          | Not classified |
| Serious eye damage/irritation                      | Not classified |
| Respiratory or skin sensitization                  | Not classified |
| Germ cell mutagenicity                             | Not classified |
| Carcinogenicity                                    | Not classified |
| Reproductive toxicity                              | Not classified |
| Specific target organ toxicity (single exposure)   | Not classified |
| Specific target organ toxicity (repeated exposure) | Not classified |
| Aspiration hazard                                  | Not classified |

### Potential health effects

#### Inhalation

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

#### Skin

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

#### Eye

Acute : May cause mild eye irritation.

#### Ingestion

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

#### Mutagenicity

: Pyrethrins were not found to be genotoxic and did not damage DNA in any study conducted which included: Ames assay, chromosome aberration in Chinese hamster ovaries (CHO) cells and in the unscheduled DNA synthesis (UDS) assay in cultured human liver cells. Piperonyl butoxide was not mutagenic in a battery of tests. N-octyl bicycloheptene dicarboximide was concluded to be negative in the CHO chromosome aberration assay. Di-n-propyl isocinchomeronate is not a mutagen.

#### Carcinogenicity

: Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP. Piperonyl butoxide is not classified as a carcinogen by IARC, NTP, OSHA. N-octyl bicycloheptene dicarboximide is not listed by OSHA, IARC or NTP as a carcinogen. Di-n-propyl isocinchomeronate is classified by US EPA as a B2-probable human carcinogen, it is not listed by OSHA, IARC or NTP.

#### Reproductive Effects

: Pyrethrins did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. Piperonyl butoxide did not produce any birth defects or adverse effects on reproductive parameters in tests with rats and rabbits. N-octyl bicycloheptene dicarboximide has been tested and is not a reproductive toxin. Di-n-propyl isocinchomeronate showed adverse effects on reproduction in laboratory animals.

## SECTION 12: Ecological information

### 12.1. Toxicity

| Pyrethrins (8003-34-7)                   |   |
|--|---|
| LC50 Acute fish 1                        | 0.0051 mg/l (Exposure time: 96h - Rainbow trout)    |
| LC50 Acute fish 2                        | 0.016 mg/l (Exposure time: 96h - Sheepshead minnow) |
| LC50 Acute crustacea 1                   | 0.0014 mg/l (Exposure time: 96h - Mysid shrimp)     |
| LC50 Acute crustacea 2                   | 0.0116 mg/l (Exposure time: 48h Daphnia)            |
| NOEC Chronic fish 1                      | 0.0019 mg/l (Fathead minnow)                        |
| NOEC Chronic fish 2                      | 0.0059 mg/l (Sheepshead minnow - Estimated)         |
| NOEC Chronic crustacea 1                 | 0.00086 mg/l (Daphnia magna)                        |
| NOEC Chronic crustacea 2                 | 0.0001 mg/l (Mysid shrimp - Estimated)              |
| Piperonyl Butoxide (51-03-6)             |   |
| LC50 Acute fish 1                        | 1.9 mg/l Rainbow trout                              |
| LC50 Acute fish 2                        | 3.94 mg/l (Sheepshead minnow)                       |
| LC50 Acute crustacea 1                   | 0.49 mg/l (Mysid shrimp)                            |
| LC50 Acute crustacea 2                   | 0.51 mg/l Gammarus fasciatus (amphipod)             |
| NOEC Chronic fish 1                      | 0.04 mg/l (Fathead minnow)                          |
| NOEC Chronic crustacea 1                 | 0.03 mg/l (Daphnia magna)                           |
| Di-n-propyl Isocinchomeronate (136-45-8) |   |
| LC50 Acute fish 1                        | 1 mg/l (Exposure time: na - Rainbow trout)          |

# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

### Di-n-propyl Isocinchomeronate (136-45-8)

|                        |  |
|------------------------|--|
| LC50 Acute fish 2      | 0.44 mg/l (Exposure time: 96h - Blue gill) |
| LC50 Acute crustacea 1 | 18 mg/l (Exposure time: 48h Daphnia)       |

### N-Octyl Bicycloheptene Dicarboximide (113-48-4)

|                        |                                       |
|------------------------|---------------------------------------|
| LC50 Acute fish 1      | 1.4 – 2.4 mg/l                        |
| LC50 Acute crustacea 1 | 2.3 mg/l (Exposure time: 48h Daphnia) |

## 12.2. Persistence and degradability

### Pyrethrins (8003-34-7)

|                               |  |
|-------------------------------|--|
| Persistence and degradability | Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light. |
|-------------------------------|--|

## 12.3. Bioaccumulative potential

No data available

## 12.4. Mobility in soil

No data available

## 12.5. Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## SECTION 14: Transport information

|             | UN number | Proper Shipping Name   | Transport hazard class(es) | Packing group | Environmental hazards  |
|-------------|-----------|--|----------------------------|---------------|------------------------|
| <b>DOT</b>  | NA1993    | Packaging 250 lbs. or greater:<br>Combustible liquid, n.o.s. (Pyrethrins)  | Comb Liq                   | III           | RQ: Pyrethrins = 1 lb. |
| <b>IMDG</b> | UN3082    | Packaging greater than 5 L:<br>Environmentally Hazardous substance,<br>Liquid, N.O.S. (Pyrethrins and<br>Piperonyl butoxide) | 9                          | III           | Marine pollutant       |
| <b>IATA</b> | UN3082    | Packaging greater than 5 L:<br>Environmentally Hazardous substance,<br>Liquid, N.O.S. (Pyrethrins and<br>Piperonyl butoxide) | 9                          | III           | Acute aquatic toxicity |

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Pyrethrins (8003-34-7)

|           |                              |
|-----------|------------------------------|
| CERCLA RQ | 1 lb listed under Pyrethrins |
|-----------|------------------------------|

#### Piperonyl Butoxide (51-03-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Subject to reporting requirements of United States SARA Section 313

|                                       |     |
|---------------------------------------|-----|
| SARA Section 313 - Emission Reporting | 1 % |
|---------------------------------------|-----|

#### Di-n-propyl Isocinchomeronate (136-45-8)

Subject to reporting requirements of United States SARA Section 313

|                                       |     |
|---------------------------------------|-----|
| SARA Section 313 - Emission Reporting | 1 % |
|---------------------------------------|-----|

#### Mineral oil, white (8042-47-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### EPA Labelling

|                         |         |
|-------------------------|---------|
| EPA Registration Number | 270-107 |
|-------------------------|---------|

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.

# Farnam Roll-On Fly Repellent for Horses, Ponies & Dogs

## Safety Data Sheet

|  |   |
|--|---|
| FIFRA Hazard statements                      | <b>Caution</b>  |
| FIFRA Precautionary statements               | KEEP OUT OF REACH OF CHILDREN.  |
| FIFRA Hazards to Humans and Domestic Animals | Harmful if swallowed. For animal use only. Do not use on animals under 12 weeks. Consult a veterinarian before using this product on debilitated, aged, medicated, pregnant or nursing animals. Not for human use. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Sensitivities may occur after using ANY pesticide product on 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. |
| FIFRA First aid                              | IF SWALLOWED: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. Note to Physician: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.  |

### 15.2. US State regulations

No additional information available

## SECTION 16: Other information

Issue date : 23 August 2016  
Revision date : 29 February 2024  
Supersedes : 24 March 2022

Indication of changes:

Revised Sec. 3: Formulation change.

SDS US (GHS HazCom 2012) - CGP

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