

# Safety Data Sheet

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**Fly REPELLENT**


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SDS No.

03/04/2015.  
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EVO00001

## Section 1. Identification

|  |   |
|--|---|
| <b>Product name</b>                                    | <p>Fly REPELLENT</p> <p>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 container label reflects the approved EPA classification and includes other important information such as the directions for use.</p> |
| <b>Supplier</b>  | <p>Ecovet, Inc.<br/>11308 92nd St SE<br/>Snohomish, WA 98290<br/>Phone: +1-800-208-9192<br/>Fax-no.: +1-360-568-1933<br/>Plant 24 Hr Phone: +1-360-568-9111</p>   |
| <b>Responsible name</b><br><u>In case of emergency</u> | <p><b>Ecovet, Inc.</b><br/>+1-360-568-9111 (24 hour)</p>  |
| <b>Product type</b>                                    | <p>: Liquid.</p>  |

## Section 2. Hazards identification

|   |   |
|---|---|
| <b>OSHA/HCS status</b>                            | <p>This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).</p>  |
| <b>Classification of the substance or mixture</b> | <p>FLAMMABLE LIQUIDS - Category 4<br/>SKIN CORROSION/IRRITATION - Category 2<br/>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A</p>                   |
| <b>GHS label elements</b><br>Hazard pictograms    |    |
| <b>Signal word</b>                                | <p>Warning</p>  |
| <b>Hazard statements</b>                          | <p>Combustible liquid.<br/>Causes serious eye irritation.<br/>Causes skin irritation.</p>   |
| <b>Precautionary statements</b><br>General        | <p>Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.</p>                      |
| <b>Prevention</b>                                 | <p>Wear protective gloves. Wear eye or face protection. Keep away from flames and hot surfaces. - No smoking. Wash hands thoroughly after handling.</p> |



## Section 2. Hazards identification

|   |  |
|---|--|
| <b>Response</b>                         | IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. 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 attention. |
| <b>Storage</b>                          | Store in a well-ventilated place. Keep cool.   |
| <b>Disposal</b>                         | Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Hazards not otherwise classified</b> | None known.  |

## Section 3. Composition/information on ingredients

### CAS number/other identifiers

| Ingredient name      | CAS number | %  |
|----------------------|------------|----|
| Caprylic Acid (C8)   | 124-07-2   | 5  |
| Pelargonic acid (C9) | 112-05-0   | 5  |
| Capric acid(C10)     | 334-48-5   | 5  |
| Other Ingredients    |            | 85 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.   |
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.  |
| <b>Skin contact</b> | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.  |
| <b>Ingestion</b>    | Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

### Most important symptoms/effects. acute and delayed

#### Potential acute health effects

**Eye contact** Causes serious eye irritation.



## Section 4. First aid measures

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation.

**Ingestion** Irritating to mouth, throat and stomach.

### Over-exposure signs/symptoms

**Eye contact** Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** No specific data.

**Skin contact** Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** No specific treatment.

**Protection of first-aiders** No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. :

**Unsuitable extinguishing media** Do not use water jet.

**Specific hazards arising from the chemical** Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

**Special protective actions for fire-fighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.



## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink.

Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must

be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.





## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

None.

#### **Appropriate engineering controls**

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

#### **Hygiene measures**

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **Eye/face protection**

Safety eyewear complying with an approved standard should be used when a risk assessment by a qualified industrial hygienist indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### Skin protection

##### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment by a qualified industrial hygienist indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

##### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### **Other skin protection**

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

##### **Respiratory protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment by a qualified industrial hygienist indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

#### **Physical state**

Liquid.

#### **Color**

Clear.

#### **Odor**

Coconut.

#### **Flash point**

Closed cup: 85°C (185°F) [Pensky-Martens.]

#### **Solubility**

Insoluble in the following materials: cold water.



## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | The product is stable.  |
| <b>Possibility of hazardous reactions</b> | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>Conditions to avoid</b>                | Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Incompatible materials</b>             | Reactive or incompatible with the following materials:<br>oxidizing materials   |
| <b>Hazardous decomposition products</b>   | Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name      | Result      | Species | Dose         | Exposure |
|------------------------------|-------------|---------|--------------|----------|
| decamethylcyclopentasiloxane | LD50 Oral   | Rat     | >24134 mg/kg | -        |
| octanoic acid                | LD50 Dermal | Rabbit  | >5000 mg/kg  | -        |
|                              | LD50 Oral   | Rat     | 10080 mg/kg  | -        |
| Pelargonic acid              | LD50 Dermal | Rabbit  | 5000 mg/kg   | -        |
|                              | LD50 Oral   | Rat     | 5000 mg/kg   | -        |
| Decanoic acid                | LD50 Oral   | Rat     | >10g/kg      | -        |
| Fly REPELLENT                | LD50 Oral   | Rat     | 5000 mg/kg   | -        |
|                              |             |         | Analogy      |          |

#### Irritation/Corrosion

| Product/ingredient name      | Result                   | Species | Score | Exposure                | Observation |
|------------------------------|--------------------------|---------|-------|-------------------------|-------------|
| decamethylcyclopentasiloxane | Eyes – Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                              | Skin – Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
| octanoic acid                | Skin – Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| Decanoic acid                | Skin – Moderate irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
| Fly REPELLENT                | Eyes – Moderate irritant | Rabbit  | -     | -                       | -           |

**Information on the likely routes of exposure**      Routes of entry anticipated: Dermal.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route  | ATE value   |
|--------|-------------|
| Dermal | 15000 mg/kg |

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## Section 14. Transport information

|                               |   |   |                                       |   |   |
|-------------------------------|---|---|---------------------------------------|---|---|
| <b>Additional information</b> | Non-bulk packages (less than or equal to 119 gal) of combustible liquids are not regulated as hazardous materials.<br><br><b>Limited quantity</b><br>Yes<br><br><b>Packaging instruction</b><br><b>Passenger aircraft</b><br>Quantity limitation:<br>60 L<br><b>Cargo aircraft</b><br>Quantity limitation:<br>220 L<br><br><b>Special provisions</b><br>IB3,T1,T4,TP1 | - | <b>Special provisions</b><br>223, 274 | - | - |
|-------------------------------|---|---|---------------------------------------|---|---|

### Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

### U.S. Federal regulations

**United States inventory (TSCA 8b):** All components are listed or exempted.

### SARA 302/304

#### Composition/information on ingredients

No products were found.

### **SARA 304 RQ**

Not applicable.

### SARA 311/312

#### **Classification**

Fire hazard

Immediate (acute) health hazard

#### Composition/information on ingredients

| Name                        | %             | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|-----------------------------|---------------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Decamethylcyclpentasiloxane | 46.75 - 63.75 | Yes.        | No.                        | No.      | Yes.                            | No.                             |
| Caprylic Acid (C8)          | 5             | No.         | No.                        | No.      | Yes.                            | No.                             |
| Pelargonic acid (C9)        | 5             | No.         | No.                        | No.      | Yes.                            | No.                             |
| Capric acid(C10)            | 5             | No.         | No.                        | No.      | Yes.                            | No.                             |

## Section 15. Regulatory information

### State regulations

|                                     |                                    |
|-------------------------------------|------------------------------------|
| <a href="#">Massachusetts</a>       | None of the components are listed. |
| <a href="#">New York</a>            | None of the components are listed. |
| <a href="#">New Jersey</a>          | None of the components are listed. |
| <a href="#">Pennsylvania</a>        | None of the components are listed. |
| <a href="#">California Prop. 65</a> |                                    |

None of the components are listed.

### Canadian regulations

|                                  |   |
|----------------------------------|---|
| <a href="#">Canada inventory</a> | All components are listed or exempted.  |
| <a href="#">WHMIS (Canada)</a>   | Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).<br>Class D-2B: Material causing other toxic effects (Toxic).  |
| <a href="#">Canadian lists</a>   | <b>CEPA Toxic substances:</b> None of the components are listed.<br><b>Canadian ARET:</b> None of the components are listed.<br><b>Canadian NPRI:</b> None of the components are listed.<br><b>Alberta Designated Substances:</b> None of the components are listed.<br><b>Ontario Designated Substances:</b> None of the components are listed.<br><b>Quebec Designated Substances:</b> None of the components are listed. |

### International lists

#### National inventory

|                           |  |
|---------------------------|--|
| <a href="#">Australia</a> | All components are listed or exempted. |
| <a href="#">Europe</a>    | All components are listed or exempted. |

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 2 |
| Flammability     |   | 2 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The  
this



customer is responsible for determining the PPE code for material.

[National Fire Protection Association \(U.S.A.\)](#)

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA

**or not, anyone using the 704 systems to classify chemicals does so at their own risk.**

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## Section 16. Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.