SECTION 1: Identification

1.1. Identification
Product form: Mixture
Trade name: Swat Clear Fly Repellent Ointment
Synonyms: 12302, 100525178, 100532426, EPA Reg. No.: 270-103

1.2. Recommended use and restrictions on use
Recommended use: Insecticide.
Restrictions on use: Avoid contact with eyes, skin and clothing. Keep out of reach of children.

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
Serious eye damage/eye irritation Category 2B - Causes eye irritation
Carcinogenicity Category 2 - Suspected of causing cancer

2.2. GHS Label elements, including precautionary statements
GHS-US labeling
Hazard pictograms (GHS-US):
GHS08

Signal word (GHS-US): Warning
Hazard statements (GHS-US):
Causes eye irritation
Suspected of causing cancer
Precautionary statements (GHS-US):
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands, forearms and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Store locked up.
Dispose of contents/container to in accordance with local/regional/national/international regulations

Supplemental information:
Exposure to airborne titanium dioxide is not expected to occur due to the physical form of this product. The finished product is not considered carcinogenic because there is little likelihood of airborne exposure to titanium dioxide.

2.3. Other hazards which do not result in classification
Other hazards not contributing to the classification:
This pesticide is toxic to aquatic organisms, including fish and invertebrates. 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins (CAS-No.) 8003-34-7</td>
<td></td>
<td>0.2</td>
</tr>
<tr>
<td>Piperonyl butoxide (CAS-No.) 51-03-6</td>
<td></td>
<td>0.5</td>
</tr>
<tr>
<td>Di-n-propyl Isocinchomeronate (CAS-No.) 136-45-8</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Titanium dioxide (CAS-No.) 13463-67-7</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Other ingredients (CAS-No.) N/A</td>
<td></td>
<td>Balance</td>
</tr>
</tbody>
</table>

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general: IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. 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)

Symptoms/effects after eye contact: Mild eye irritation.

Chronic symptoms: Suspected of causing cancer.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media


Unsuitable extinguishing media: Avoid heavy hose streams.

5.2. Specific hazards arising from the chemical

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

5.3. Special protective equipment and precautions for fire-fighters

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. 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.


6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Collect spillage. Do not flush to sewer or allow to enter waterways.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene measures: 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 locked up. Store in a well-ventilated place. Keep only in original container. Keep cool. Protect from sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>Pyrethrins (8003-34-7)</th>
<th>ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>5 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>IDLH</td>
<td>US IDLH (mg/m³)</td>
<td>5000 mg/m³</td>
</tr>
<tr>
<td></td>
<td>NIOSH</td>
<td>NIOSH REL (TWA) (mg/m³)</td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Titanium dioxide (13463-67-7)</th>
<th>ACGIH</th>
<th>ACGIH TWA (mg/m³)</th>
<th>10 mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OSHA</td>
<td>OSHA PEL (TWA) (mg/m³)</td>
<td>15 mg/m³ (total dust)</td>
</tr>
<tr>
<td></td>
<td>IDLH</td>
<td>US IDLH (mg/m³)</td>
<td>5000 mg/m³</td>
</tr>
</tbody>
</table>

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: Protective gloves

Eye protection: Safety glasses

Skin and body protection: Wear suitable protective clothing

Respiratory protection: Not required for normal conditions of use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>White to off-white semi solid</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Odor</td>
<td>Moderate, pleasant, wood-like</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Swat Clear Fly Repellent Ointment
Safety Data Sheet

Flash point: No data available
Relative evaporation rate (butyl acetate=1): No data available
Flammability (solid, gas): Not applicable
Vapor pressure: No data available
Relative vapor density at 20 °C: No data available
Relative density: 0.9 (20 °C) (68°F)
Solubility: No data available
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
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
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
Direct sunlight.

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Pyrethrins (8003-34-7)
LD50 oral rat 2370 mg/kg Adult male; 1030 mg/kg Adult female
LD50 dermal rat 2000 mg/kg
LC50 inhalation rat (mg/l) 3.4 mg/l/4h

Piperonyl butoxide (51-03-6)
LD50 oral rat 4300 mg/kg
LD50 dermal rat > 2000 mg/kg
LC50 inhalation rat (mg/l) > 5 mg/l/4h

Di-n-propyl Isocinchomeranate (136-45-8)
LD50 oral rat 5230 mg/kg
LD50 dermal rabbit 9400 mg/kg
LC50 inhalation rat (mg/l) > 6.09 mg/l/4h

Titanium dioxide (13463-67-7)
IARC group 2B - Possibly carcinogenic to humans
In OSHA Hazard Communication Carcinogen list? Yes

GHS-US Properties Classification
Acute toxicity Not classified
Swat Clear Fly Repellent Ointment
Safety Data Sheet

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: Causes 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, Di-n-propyl isocinchomeranate is not a mutagen.

Carcinogenicity
Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP, Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA, Di-n-propyl Isocinchomeronate is classified by US EPA as a B2-probable human carcinogen, it is not listed by IARC, NTP, OSHA or ACGIH as being carcinogenic, Titanium dioxide is classified as carcinogen IARC and OSHA. However, according to DuPont, the supplier of titanium dioxide present in this product, the conclusions of several epidemiology studies on more than 20000 TiO2 industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO2 dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO2 dust. Based upon all available study results, it has been determined that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

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, Di-n-propyl isocinchomeranate showed adverse effects on reproduction in laboratory animals.

SECTION 12: Ecological information

12.1 Toxicity

Pyrethrins (8003-34-7)

<table>
<thead>
<tr>
<th>LC50 Acute fish 1</th>
<th>0.0051 mg/l (Exposure time: 96h - Rainbow trout)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 2</td>
<td>0.016 mg/l (Exposure time: 96h - Sheepshead minnow)</td>
</tr>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>0.0014 mg/l (Exposure time: 96h - Mysid shrimp)</td>
</tr>
<tr>
<td>LC50 Acute crustacea 2</td>
<td>0.0116 mg/l (Exposure time: 48h - Daphnia magna)</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.0019 mg/l (Fathead minnow)</td>
</tr>
<tr>
<td>NOEC Chronic fish 2</td>
<td>0.0059 mg/l (Sheepshead minnow - Estimated)</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.00086 mg/l (Daphnia magna)</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 2</td>
<td>0.0001 mg/l (Mysid shrimp - Estimated)</td>
</tr>
</tbody>
</table>

Piperonyl butoxide (51-03-6)

<table>
<thead>
<tr>
<th>LC50 Acute fish 1</th>
<th>1.9 mg/l (Exposure time: na - Rainbow trout)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute fish 2</td>
<td>3.94 mg/l (Exposure time: na - Sheepshead minnow)</td>
</tr>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>0.49 mg/l (Exposure time: na - Mysid shrimp)</td>
</tr>
<tr>
<td>LC50 Acute crustacea 2</td>
<td>0.51 mg/l (Exposure time: na - Gammarus fasciatus (amphipod))</td>
</tr>
<tr>
<td>NOEC Chronic fish 1</td>
<td>0.04 mg/l (Fathead minnow)</td>
</tr>
<tr>
<td>NOEC Chronic crustacea 1</td>
<td>0.03 mg/l (Daphnia magna)</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>LC50 Acute fish 1</th>
<th>1 mg/l (Exposure time: na - Rainbow trout)</th>
</tr>
</thead>
</table>
**Di-n-propyl Isocinchomeranate (136-45-8)**

<table>
<thead>
<tr>
<th>LC50 Acute fish 2</th>
<th>0.44 mg/l (Exposure time: 96h - Blue gill)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 Acute crustacea 1</td>
<td>18 mg/l (Exposure time: 48h - Daphnia magna)</td>
</tr>
</tbody>
</table>

**12.2. Persistence and degradability**

**Pyrethrins (8003-34-7)**

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>Pyrethrins have low persistence in the environment due to rapid breakdown in presence of UV light.</th>
</tr>
</thead>
</table>

**12.3. Bioaccumulative potential**

No additional information available

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

**Swat Clear Fly Repellent Ointment**

| Ecological Fate | This product is toxic to aquatic organisms, including fish and invertebrates. |

**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**

<table>
<thead>
<tr>
<th>UN number</th>
<th>Proper Shipping Name</th>
<th>Transport hazard class(es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Not regulated</td>
<td>Not applicable</td>
<td>Not applicable</td>
<td>RQ (Pyrethrins = 1 lb)</td>
</tr>
<tr>
<td>IMDG</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

**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 Isocinchomeranate (136-45-8)**

Subject to reporting requirements of United States SARA Section 313
SARA Section 313 - Emission Reporting 1 %

**Titanium dioxide (13463-67-7)**

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

**FIFRA Labelling**

EPA Registration Number 270-103

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.

FIFRA Signal word Caution
15.2. US State regulations

No additional information available

SECTION 16: Other information

Date of issue : 11 July 2016
Revision date : 20 December 2017

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.