Safety Data Sheet

Section 1: Identification

Product identifier

Product Name • Zodiac Flea & Tick Shampoo for Dogs & Cats
Synonyms • 100505846; 100505847; EPA Reg. No.: 2724-792

Product Description • Clear green liquid.

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

Recommended use • Flea and tick shampoo for dogs and cats.
Restrictions on use • KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes, skin or clothing.

Details of the supplier of the safety data sheet

Manufacturer • Wellmark International
1501 E. Woodfield Road 200W
Schaumburg, IL 60173
United States

Emergency telephone number

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC
Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC Outside US Collect Calls accepted
Manufacturer • 1-800-950-4783

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
Skin Irritation 2

Label elements

OSHA HCS 2012

WARNING

Hazard statements • Causes eye irritation
Causes skin irritation

Precautionary statements

Prevention • Wash thoroughly after handling.
Wear protective gloves.

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.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash before reuse.

Other hazards

OSHA HCS 2012


Section 3 - Composition/Information on Ingredients

Substances

• Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>CAS:8003-34-7</td>
<td>0.05%</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>CAS:51-03-6</td>
<td>0.5%</td>
</tr>
<tr>
<td>Ethanol</td>
<td>CAS:64-17-5</td>
<td>1.69% TO 1.95%</td>
</tr>
<tr>
<td>Coconut fatty acid monoethanolamide</td>
<td>CAS:68140-00-1</td>
<td>1.08% TO 1.2%</td>
</tr>
<tr>
<td>Other ingredients</td>
<td>NDA</td>
<td>Balance</td>
</tr>
</tbody>
</table>

Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor for further treatment advice.

Skin

• IF ON SKIN: Wash skin with soap and water. If skin irritation 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 center or doctor if you feel unwell. Rinse mouth. Do
NOT induce vomiting. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

- Causes eye irritation. Causes skin irritation. Refer to Section 11 - Toxicological Information.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician**

- Treat symptomatically and supportively.

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**Section 5: Fire-Fighting Measures**

**Extinguishing media**

- **Suitable Extinguishing Media**
  - Use water, foam, carbon dioxide, or dry chemical.
- **Unsuitable Extinguishing Media**
  - Avoid heavy hose streams.
- **Firefighting Procedures**
  - Keep unauthorized personnel away.
  - Stay upwind.
  - Ventilate closed spaces before entering.

**Special hazards arising from the substance or mixture**

- **Unusual Fire and Explosion Hazards**
  - None known.
- **Hazardous Combustion Products**
  - No data available.
- **Advice for firefighters**
  - Wear positive pressure self-contained breathing apparatus (SCBA).

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**Section 6 - Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

- **Personal Precautions**
  - Avoid contact with skin, eyes, and clothing. Remove clothing and wash thoroughly after use. Use appropriate Personal Protective Equipment (PPE). Do not walk through spilled material. Ensure adequate ventilation to remove vapors, fumes, dust etc.
- **Emergency Procedures**
  - Use normal clean up procedures.
- **Environmental precautions**
  - No data available.

**Methods and material for containment and cleaning up**

- **Containment/Clean-up Measures**
  - LARGE SPILLS: Dike far ahead of spill for later disposal.
  - SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

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**Section 7 - Handling and Storage**

**Precautions for safe handling**

- **Handling**
  - Wash hands thoroughly with soap and water after handling. Avoid contact with skin or eyes.
Conditions for safe storage, including any incompatibilities

Storage
- Keep container/package tightly closed in a cool, well-ventilated place. Keep only in the original container. Avoid direct sunlight. Avoid extreme temperatures.

Incompatible Materials or Ignition Sources
- No data available.

Other Information
- See product label for additional information.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines
- No data available.

<table>
<thead>
<tr>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>TWAs</td>
<td>5 mg/m³ TWA</td>
<td>5 mg/m³ TWA</td>
<td>5 mg/m³ TWA</td>
</tr>
<tr>
<td>STELs</td>
<td>1000 ppm STEL</td>
<td>Not established</td>
<td>Not established</td>
</tr>
</tbody>
</table>

Exposure Limits Supplemental

ACGIH
- Pyrethrins (8003-34-7): TLV Basis - Critical Effects: (liver damage; lower respiratory tract irritation)
- Ethanol (64-17-5): TLV Basis - Critical Effects: (upper respiratory tract irritation)

Exposure controls

Engineering Measures/Controls
- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms

Respiratory
- In case of insufficient ventilation, use NIOSH approved respiratory protection.

Eye/ Face
- Wear safety glasses.

Hands
- Wear appropriate gloves.

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

Environmental Exposure Controls
- Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Odor</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Liquid</td>
<td>Clear green liquid</td>
<td>Woody, herbaceous</td>
</tr>
<tr>
<td></td>
<td>Green</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Preparation Date: 07/April/2016
Revision Date: 07/April/2016
**Odor Threshold**  
No data available

**General Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>1.01 g/ml</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>5.64</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>1500 to 7000 Centipoise (cPs, cP) or mPas @ 20 °C(68 °F)</td>
</tr>
</tbody>
</table>

**Vapor Pressure**  
No data available

**Vapor Density**  
No data available

**Evaporation Rate**  
No data available

**Flammability**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>LEL</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Flammable.</td>
</tr>
<tr>
<td>UEL</td>
<td>No data available</td>
</tr>
<tr>
<td>Flame Duration</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Environmental**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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### Section 10: Stability and Reactivity

**Reactivity**

- No dangerous reaction known under conditions of normal use.

**Chemical stability**

- Stable

**Possibility of hazardous reactions**

- Hazardous polymerization will not occur.

**Conditions to avoid**

- Extreme temperatures. Keep away from fire.

**Incompatible materials**

- Strong oxidizing agents.

**Hazardous decomposition products**

- Thermal decomposition may produce toxic gases.

### Section 11 - Toxicological Information

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>CAS</th>
<th><strong>Acute Toxicity:</strong> Ingestion/Oral-Rat LD50 • &gt;5100 mg/kg; Skin-Rabbit LD50 • &gt;2100 mg/kg; <strong>Irritation:</strong> Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zodiac Flea &amp; Tick Shampoo for Dogs &amp; Cats</td>
<td>NDA</td>
</tr>
</tbody>
</table>

**GHS Properties**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th><strong>Classification:</strong> OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/Irritation</td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td>-----------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Serious eye damage/Irritation</td>
<td>OSHA HCS 2012 • Eye Mild Irritation 2B</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Aspiration Hazard</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity</td>
<td>OSHA HCS 2012 • Not classified - data lacking</td>
</tr>
<tr>
<td>Toxicity for Reproduction</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-SE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td>STOT-RE</td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

**Route(s) of entry/exposure**
- Inhalation, Ingestion, Eyes, and Skin

**Potential Health Effects**

**Inhalation**
- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**
  - No data available.

**Skin**
- **Acute (Immediate)**
  - Causes skin irritation.
- **Chronic (Delayed)**
  - No data available.

**Eye**
- **Acute (Immediate)**
  - Causes eye irritation.
- **Chronic (Delayed)**
  - No data available.

**Ingestion**
- **Acute (Immediate)**
  - Under normal conditions of use, no health effects are expected.
- **Chronic (Delayed)**
  - No data available.

**Mutagenic Effects**
- 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.

**Carcinogenic Effects**
- Pyrethrins are not listed as a carcinogen by OSHA, IARC, or NTP. Piperonyl butoxide is not classified as carcinogen by NTP, IARC and OSHA. No other components present at 0.1% or greater are listed by IARC, OSHA 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.

**Section 12 - Ecological Information**

**Toxicity**

<table>
<thead>
<tr>
<th>Components</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aquatic Toxicity-Fish:</strong> 96 Hour(s) LC50 Rainbow trout 0.0051 mg/L [Acute]</td>
</tr>
<tr>
<td>96 Hour(s) LC50 Sheepshead minnow 0.016 mg/L [Acute]</td>
</tr>
<tr>
<td>Substance</td>
</tr>
<tr>
<td>-----------------------------------</td>
</tr>
<tr>
<td>Pyrethrins (0.05%)</td>
</tr>
<tr>
<td>Piperonyl butoxide (0.5%)</td>
</tr>
</tbody>
</table>

### Section 13 - Disposal Considerations

**Waste treatment methods**
- **Product waste**: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- **Packaging waste**: 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>UN 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 Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Special precautions for user**
- None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- Not relevant.

### Section 15 - Regulatory Information

- **IMO/IMDG**: No data available
- **IATA/ICAO**: No data available
Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications  •  Acute

FIFRA – Pesticide Labeling

This material 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 • Keep out of reach of children.

Hazards to Humans and Domestic Animals

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash hands thoroughly with plenty of soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

First Aid •

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
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.

Section 16 - Other Information

Revision Date • 07/April/2016
Last Revision Date • 07/April/2016
Preparation Date • 07/April/2016
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.