



## 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

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

## Section 3 - Composition/Information on Ingredients

### Substances

- Material does not meet the criteria of a substance.

### Mixtures

Composition		
Chemical Name	Identifiers	%
Pyrethrins	CAS:8003-34-7	0.05%
Piperonyl butoxide	CAS:51-03-6	0.5%
Ethanol	CAS:64-17-5	1.69% TO 1.95%
Coconut fatty acid monoethanolamide	CAS:68140-00-1	1.08% TO 1.2%
Other ingredients	NDA	Balance

## 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.

## 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).

## 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.

## 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.

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Pyrethrins (8003-34-7)	TWAs	5 mg/m3 TWA	5 mg/m3 TWA	5 mg/m3 TWA
Ethanol (64-17-5)	TWAs	Not established	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm TWA; 1900 mg/m3 TWA
	STELs	1000 ppm STEL	Not established	Not established

### 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

- Use adequate ventilation to remove vapors (fumes, dust etc)

#### Measures/Controls

#### 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

Material Description			
Physical Form	Liquid	Appearance/Description	Clear green liquid.
Color	Green	Odor	Woody, herbaceous.

Odor Threshold	No data available		
<b>General Properties</b>			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	5.64
Specific Gravity/Relative Density	1.01 g/ml	Bulk Density	No data available
Water Solubility	No data available	Viscosity	1500 to 7000 Centipoise (cPs, cP) or mPas @ 20 °C(68 °F)
<b>Volatility</b>			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	No data available	UEL	No data available
LEL	No data available	Flame Duration	No data available
Flammability (solid, gas)	Not Flammable.		
<b>Environmental</b>			
Octanol/Water Partition coefficient	No data available		

## 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

	CAS	
Zodiac Flea & Tick Shampoo for Dogs & Cats	NDA	<b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • >5100 mg/kg; Skin-Rabbit LD50 • >2100 mg/kg; <b>Irritation:</b> Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation

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 • Skin Irritation 2</b>
<b>Serious eye damage/Irritation</b>	<b>OSHA HCS 2012 • Eye Mild Irritation 2B</b>
<b>Skin sensitization</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>Respiratory sensitization</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>Aspiration Hazard</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>Carcinogenicity</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>Germ Cell Mutagenicity</b>	<b>OSHA HCS 2012 • Not classified - data lacking</b>
<b>Toxicity for Reproduction</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>STOT-SE</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>
<b>STOT-RE</b>	<b>OSHA HCS 2012 • Classification criteria not met</b>

**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**

<b>Components</b>	
	<b>Aquatic Toxicity-Fish:</b> 96 Hour(s) LC50 <i>Rainbow trout</i> 0.0051 mg/L [Acute] 96 Hour(s) LC50 <i>Sheepshead minnow</i> 0.016 mg/L [Acute]

Pyrethrins (0.05%)	8003-34-7	NOEC <i>Fathead minnow</i> 0.0019 mg/L [Chronic] NOEC <i>Sheepshead minnow</i> 0.0059 mg/L [Chronic (Est.)] <b>Aquatic Toxicity-Crustacea:</b> LC50 <i>Daphnia magna</i> 0.00086 mg/L [Chronic] NOEC <i>Mysid shrimp</i> 0.0001 mg/L [Chronic (Est.)] 48 Hour(s) LC50 <i>Daphnia magna</i> 0.0116 mg/L [Acute] 96 Hour(s) LC50 <i>Mysid shrimp</i> 0.0014 mg/L [Acute]
Piperonyl butoxide (0.5%)	51-03-6	<b>Aquatic Toxicity-Fish:</b> LC50 <i>Rainbow Trout</i> 1.9 mg/L [Acute] LC50 <i>Sheepshead minnow</i> 3.94 mg/L [Acute] NOEC <i>Fathead minnow</i> 0.04 mg/L [Chronic] <b>Aquatic Toxicity-Crustacea:</b> LC50 <i>Gammarus fasciatus (amphipod)</i> 0.51 mg/L [Acute] LC50 <i>Mysid shrimp</i> 0.49 mg/L [Acute] 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

- No data available.

## 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

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

### Special precautions for user

- None specified.

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

### 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** • 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** •

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