SAFETY DATA SHEET

Date: 10/07/2015 (Preparation or Last Revision)


Regulatory Status:
None of the components present in this preparation at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: Flea & Tick Shampoo
SERIES NAME: Espree
DESCRIPTION: A repellant shampoo for flea and ticks...Various sizes
PRODUCT USE: Insecticide/Shampoo
DISTRIBUTOR: Espree Animal Products, Inc.
800 Industrial Blvd, #200
Grapevine, Texas 75051, USA
Telephone: 817-251-6300
Fax: 817-251-6400
Website: www.espree.com

SECTION 2: HAZARDOUS INGREDIENTS

Classification

OSHA Regulatory Status:
This chemical is considered hazardous by the 2012 OSHA Hazard Communication standard (29 CFR 1910.1200)

Acute toxicity-Inhalation (Dusts/Mists) Category 4
Skin corrosion/irritation Category 2
Serous eye damage/eye irritation Category 2A
Flammable liquids Category 4

Label Elements
Emergency Overview

WARNING

Hazard Statements
H319- Causes serious eye irritation
H315- Causes skin irritation
H332- Harmful if inhaled
H402- Harmful to aquatic life
H412- Harmful to aquatic life with long lasting effects
H227- Combustible liquid

Appearance: Amber
Physical State: Liquid
Odor: Sweet

Precautionary Statements-Prevention:
P261- Avoid breathing dust/fume/gas/mist vapors/spray
P271- Use only outdoors or in a well-ventilated area
P210- Keep away from heat/sparks/open flames/hot surfaces. -No smoking
P280- Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response:
P304 + P340 – IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
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P312 – Call a Poison Center or doctor/physician if you feel unwell
P370 + P378 - In case if fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements:
- Storage:  P403 + P235 - Store in a well-ventilated place. Keep cool
- Disposal:  P501 – Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):
Not applicable

SECTION 3: COMPOSITION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethrins</td>
<td>8003-34-7</td>
<td>0.150</td>
</tr>
<tr>
<td>Piperonyl Butoxide (PBO)</td>
<td>51-03-6</td>
<td>0.300</td>
</tr>
<tr>
<td>MGK®-264 Insecticide Synergist (n-Octyl Bicycloheptene dicarboximide)</td>
<td>113-48-4</td>
<td>0.479</td>
</tr>
</tbody>
</table>

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

Comments: Ingredients not identified are property or non-hazardous. Values are not product sections.

SECTION 4: FIRST AID MEASURES

Aspiration pneumonia hazard: *No information available

Description of first aid measures:

**EYES:**
Hold eye open and rinse slowly and gently with water 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center doctor for treatment advice

**SKIN:**
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a position control center doctor for treatment advice.

**INGESTION:**
If swallowed, IMMEDIATELY call a position control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

**INHALATION:**
Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a poison control center for further treatment advice.

**Note to Physicians:**
For skin effects, a highly efficient therapeutic agent for Pyrethrin/Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E)

**Self-Protection /First Responder**
Use personal protective equipment as required

SECTION 5: FIRE - FIGHTING MEASURES

**Suitable extinguishing media:**
Use, Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

**Unsuitable extinguishing media:**
Caution: Use of water spray when fighting fire may be inefficient.

**Hazards combustion products:**
Carbon monoxide, Carbon dioxide (CO2).

**Specific hazards arising from the chemical:**
Keep product and empty container away from heat and sources of ignition. Risk of ignition.

**Explosion Data:**
Sensitivity to Mechanical Impact: None.
Sensitivity to Static Discharge: None.

**Protective equipment and precautions for firefighters:**
As in any fire, wear-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent)

**NFPA**
Health hazards 3  Flammability 2  Instability 0  Physical and Chemical Properties -
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HMIS
Health hazards 2  Flammability 2  Physical hazards 0  Personal Protection X

Chronic Hazard Star
* =Chronic Health Hazard

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment as required. Removed all sources of ignition. Evacuate personal to safe areas. Keep people away from and upwind of spill/leak. Pat attention to flashback. Take precautionary measures against static discharges.

Environmental Precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharge.

SECTION 7: HANDLING & STORAGE

Precautions for safe handling
Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. –No smoking. Use personal protective equipment a Do not breathe dust/fume/gas/mist/vapors/spray. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.

Advice on safe handling: Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool well ventilated place. Keep away from heat. Keep in properly labeled contains. For more information, see product label.

Conditions for safe storage, including any incompatibilities
Storage Conditions: Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool well ventilated place. Keep away from heat. Keep in properly labeled contains. For more information, see product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulator bodies.

Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH | Supplier OEL
--- | --- | --- | --- | ---
Pyrethrins | TWA: 5mg/m³ | TWA: 5mg/m³ | TWA: 5mg/m³ | -
8003-34-7 | (vacated) TWA: 5mg/m³ | IDLH: 5000 mg/m³ | TWA: 5 mg/m³ |

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL_CIO v. OSHA, 965 F.2d 962

Appropriate Engineering Controls

Engineering Controls: Safety Showers Eyewash Stations Ventilation systems

Individual protection measures, such as personal protective equipment

RESPIRATORY PROTECTION: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne in accordance with current local regulations.
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EYE/FACE PROTECTION: Tight sealing safety goggles.

SKIN AND BODY PROTECTION: Wear protective gloves and protective clothing.

General Hygiene Considerations: When using do not eat, drink, or smoke. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Comment: *Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>6.2</td>
<td></td>
</tr>
<tr>
<td>Boiling Point / boiling range</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Melting point / boiling range</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>71.1 °C 1160.0 F</td>
<td>Tag Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid gas)</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Upper flammability limit (UEL)</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit (LEL)</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Partition coefficient; n-Octanol/Water</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>No information is available</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>1,100 cPs</td>
<td>@24.0 °C</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>1.3552</td>
<td>@25 °C (77 F)</td>
</tr>
</tbody>
</table>

Other Information:

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Comment: *Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
<td>1.07 g/cm³ @ 20.0°C</td>
<td></td>
</tr>
<tr>
<td>VOC Content (%)</td>
<td>0.57</td>
<td></td>
</tr>
</tbody>
</table>

Miscibility/Solubility:

- Water: Miscible
- Alcohol: Miscible
- Aromatic Solvents: Immiscible
- Petroleum distillates: Immiscible

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: No Data Available

STABILITY: Stable under recommended storage conditions

Possibility of Hazardous Reactions: None under normal processing

Hazardous Polymerization: Hazardous Polymerization does not occur

CONDITIONS TO AVOID:

- Heat, flames, and sparks

INCOMPATIBLE MATERIALS: Incompatible with strong acids and bases. Incompatible with oxidizing agents

HAZARDOUS Decomposition Products: Carbon Monoxide, Carbon dioxide (CO2).

SECTION 11: TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Production Information

Oral LD₅₀: >5,000 mg/kg (rat)
Dermal LD₅₀: >5,000 mg/kg (rabbit)
Inhalation LC₅₀: >1.37 mg/L (rat; 4 hours)
Eye Contact: Irritation clearing in 21 days. (rabbit)
Skin Contact: Moderate irritation for 72 hours.
Skin Irritation Index: 4.3
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Sensitization: Negative. (guinea pig)

Piperonyl Butoxide: Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose of exposure to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Does at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC, or NTP.

Reproductive Toxicity: No information available.

Development Toxicity Teratogenicity No information available.

STOT - Single Exposure No information available.

STOT – repeated exposure No information available.

SECTION 12: ECOLOGICAL INFORMATION

Eco toxicity: Persistence and degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this products to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Bioaccumulation No information available.

Other Adverse Effects No information available.

Environmental Hazards (EPA) No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated Packaging: For more information, see product label

SECTION 14: TRANSPORT INFORMATION

DOT (Department of Transportation)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, liquid
Hazard Class: Non-Hazardous
Reportable Quantity (RQ) Pyrethrins (1 Lb.)
Other Shipping Information: This material is not regulated as a hazardous materials by the DOT quantities less than 666.7 Lbs.

Shipping name for quantities more than 66.7 Lbs.

UN3082. Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins), Class 9, Packing Group III

Air (IATA/ ICAO)

Proper Shipping Name: Insecticides, Insect or Animal Repellent, liquid
Hazard Class: Non-Hazardous

Note: Not considered hazardous by IATA/ ICAO regulations for transportation via air.

Vessel (IMO/IMDG)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class: 9
Packing Group: III

SECTION 15: REGULATORY INFORMATION

US Federal Regulations:
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SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and title 40 of the Code of Federal regulations, Part 372

Section 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Acute Health Hazard</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic Health Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Sudden release of pressure hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CWA-Reportable Quantities</th>
<th>CWA-Toxic Pollutants</th>
<th>CWA-Priority Pollutants</th>
<th>CWA-Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethins 8003-34-7</td>
<td>1Lbs</td>
<td>_</td>
<td>_</td>
<td>_</td>
</tr>
</tbody>
</table>

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to the releases of materials

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pyrethins 8003-34-7</td>
<td>1Lbs</td>
<td>_</td>
<td>RQ 1lb final RQ RQ 0.454kg final RQ</td>
</tr>
</tbody>
</table>

US State Regulations:
California Proposition 65:
This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number 1021-1723

Differences between SDS and EPA (FIFRA Pesticide label):
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-pesticides chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below.

Signal word: WARNING

Precautionary Statements:
- Causes substantial but temporary eye injury.
- Causes skin irritation.
- Harmful in inhaled.

International:
TSCA Does not comply
DSL/NSDL Does not comply
EINECS/ELINCS Does not comply
ENCS Does not comply
IECSC Does not comply
KECL Does not comply
PICCS Does not comply
ACIS Does not comply

Legend:
SAFETY DATA SHEET

TSCA- United States Toxic Substances Control Act section 8(b) Inventory
DSL/NDSL- Canadian Domestic substances List/Non-Domestic Substance List
EINECS/ELINCS- European Inventory of Existing chemical substances/European list of Notified Chemical Substances
ENCS- Japan Existing and New Chemical Substances
IECSC- China Inventory of Existing Chemical Substances
KECL- Korean Existing and Evaluated Chemical Substances
PICCS- Philippines Inventory of Chemical and Chemical Substances
AICS- Australian Inventory of Chemical Substances

SECTION 16: OTHER INFORMATION

NC Poison Control Center: 1-800-222-1222
FURTHER INFORMATION: This SDS has been prepared in accordance with:

DISCLAIMER: The information provided in this Material Data Safety Sheet has been compiled, in good faith, from our experience and data presented in various technical publications. An MSDS for a substance is not primarily intended for use by the general consumer, focusing instead on the hazards of working with the material in an occupational setting. It is believed to be accurate and represents the best information currently available. HOWEVER, Espree NO WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER TYPE, EXPRESSED OR IMPLIED, WITH RESPECT TO PRODUCTS DESCRIBED OR DATA OR INFORMATION PROVIDED, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OF SUCH PRODUCTS, DATA OR INFORMATION. Users should make their own investigations to determine the suitability of the information for their particular purposes, and the user assumes all risk arising from their use of the material. The user is required to comply with all laws and regulations relating to the purchase, use, storage and disposal of the material, and must be familiar with and follow generally accepted safe handling procedures. In no event shall Espree be liable for any claims, losses, or damages of any individual or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Espree been advised of the possibility of such damages. We reserve the right to update MSDS sheets from time to time as new information becomes available. It is the responsibility of the user to verify that they have the latest revision available.

Manufactured By/Contact Source for Additional Information

<table>
<thead>
<tr>
<th>Espree Animal Products, Inc.</th>
<th>Phone Number: 800-328-1317</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 Industrial Blvd, #200</td>
<td>Fax Number: 817-251-6400</td>
</tr>
<tr>
<td>Grapevine, TX 76051</td>
<td>Email: <a href="mailto:customerservice@espree.com">customerservice@espree.com</a></td>
</tr>
<tr>
<td>United States of America</td>
<td>Preparer’s Name: William Lindo</td>
</tr>
</tbody>
</table>