MATERIAL SAFETY DATA SHEET
SAWYER’S PERMETHRIN TICK REPELLENT
ODORLESS FORMULA
CLOTHING TREATMENT ONLY
DO NOT APPLY TO SKIN

I. PRODUCT IDENTIFICATION

MANUFACTURED BY: Coulston Products Incorporated
Sales & Mailing Address: Sawyer Products
Easton, PA  18042-3662
PO Box 188
Safety Harbor FL  34695

DATE OF LATEST REVISION: 29 Nov 2000
EMERGENCY TEL. # 800-356-7811
REPLACES EDITION DATED: 17 March 1994
BUSINESS TEL. # 727-725-1177
FA C SIM ILE TEL. # 727-725-1954

TRADE NAME: SAWYER'S PERMETHRIN TICK REPELLENT
PRODUCT NO:SP643 / SP646

EPA REGISTRATION NO:  50404-6-58188
EPA ESTABLISHMENT NO: 49830-GA-1

CHEMICAL NAME: NA
COMMON NAME: NA

UN NUMBER: 1950, Aerosols, Non-Flammable, N.O.S.  Class 2

II. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL NAME</th>
<th>CAS NO.</th>
<th>PERCENT</th>
<th>EXPOSURE LIMITS IN AIR</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>ACGIH (TLV) OSHA (PEL)</td>
</tr>
<tr>
<td>*Permethrin</td>
<td>52645-53-1</td>
<td>0.50</td>
<td>NE NE</td>
</tr>
<tr>
<td>Petroleum Distillate</td>
<td>64742-48-9</td>
<td>&lt;9.00</td>
<td>NE NE</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td></td>
<td>&gt;90.00</td>
<td>NE NE</td>
</tr>
<tr>
<td>(Proprietary mixture of solvents,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>surfactants, preservatives,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>and propellents)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>*(3-phenoxyphenyl)methyl (+/-) cis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trans 3-(2,2-dichloroethenyl)-2,2-</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>dimethyl cyclopropanecarboxylate.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cis/trans ratio:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>min. 35% (max. 40%)/(+/-) cis and</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>max. 65% (min. 60%)/(+/-) trans.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

III. PHYSICAL PROPERTIES

Vapor Density (air=1): NA
Specific Gravity: 0.792
Unit Pressure: 46 +/- 5PSIG
Vapor Pressure, mmHg@°C: NA
Pounds/Gallon: 6.597
Appearance: NA
Flame Extension: Negative
Bulk Density ; Settled: NA
; Fluffed: NA
Percent Volatile: 30

Melting Pt. (or range), °F: NA
Boiling Pt. (or range), °F: NA
Solubility (oil): Negligible
Solubility (water): Miscible
Color: Milky White
Odor: Slight (wax-like)
Particle Size: NA
Evap. Rate (butyl acetate=1): NA
Shelf Life: 4 years
IV. FIRE AND EXPLOSION

Flash Point, (TCC), °F: >200
Autoignition Temperature, °F: NA

Flammable Limits In Air, Volume %: Lower NE Upper NE

Fire Extinguishing Materials:
  X Water Spray  X Carbon Dioxide  X Foam  X Dry Chemical  __Other

Special Firefighting Procedures: None

Unusual Fire and Explosion Hazards: Contents under pressure; exposure to temperatures in excess of 130°F may cause bursting.

V. HEALTH HAZARD INFORMATION

Symptoms of Overexposure for Each Potential Route of Exposure: Acute Toxicity Results:
Inhaled: None Oral LD₅₀(Rats): >5000 mg/kg
Contact with Skin or Eyes: None Dermal LD₅₀(Rats): >2000 mg/kg
Absorbed Through Skin: None Inhalation LC₅₀(Rats): >2.13 mg/L
Swallowed: None Primary Eye Irritation (Rabbits): Nonirritant
                      Primary Dermal Irritation (Rabbits): Mild Irritant
Dermal Sensitization (Guinea Pigs): Non sensitizer

Health Effects or Risk From Exposure:
Acute: NE Chronic: NE

First Aid; Emergency Procedures:
Eye Contact: Flush eyes with plenty of water. Contact a physician if irritation persists.
Skin Contact: Wash affected areas with soap and warm water.
If Swallowed: Contact a physician or Poison Control Center.

Suspected Cancer Agent?
  __X No: This product's ingredients are not found in the lists below.
  __Yes: ___Federal OSHA ___NTP ___IARC ___Cal/OSHA

Notes:

VI. REACTIVITY DATA

Stability: __X Stable __Unstable
Conditions to Avoid: Do not store when Temperature exceeds 130°F.

Incompatibility (materials to avoid): None

Hazardous Decomposition Products (including combustion products): None

Hazardous Polymerization: __May Occur __X Will Not Occur

Conditions to Avoid: None
VII. SPILL, LEAK AND DISPOSAL

Spillage or Leakage Procedures; steps to be taken in case material is spilled or released; Faulty or leaking container:
Keep people away. Open all windows and doors and ventilate area thoroughly. Allow to discharge safely, avoiding breathing vapors. Soak up residues with an absorbent material.

Preparing Wastes for Disposal (container types, neutralization):
Replace cap, wrap container in several layers of newspaper, and discard container in trash. Do not incinerate or puncture. Dispose of absorbents in trash.

NOTE: Dispose of all Wastes in Accordance with Federal, State and Local Regulations.

VIII. SPECIAL HANDLING INFORMATION

Ventilation and Engineering Controls: None
Respiratory Protection: None
Eye Protection (type): Safety glasses, goggles or face shield
Gloves (specify material): None
Other Clothing and Equipment: None
Work Practices, Hygienic Practices: Follow Label Directions
Other Handling and Storage Requirements: Do not puncture, incinerate or store where temperature exceeds 130°F or falls below 32°F.

IX. LABELING

Labeling; Precautionary Statements: KEEP OUT OF REACH OF CHILDREN. Do not allow children or pets to contact treated surfaces until spray has dried. Do not allow spray to contact food, feedstuffs, or water supplies. Thoroughly wash dishes and food handling utensils contaminated with this product. Do not retreat clothing within 2 weeks unless the clothing has been laundered between treatments.

Other Precautions: CLOTHING TREATMENT ONLY. DO NOT APPLY TO SKIN.

X. REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40 CFR 710: This product is a pesticide and is exempt from TSCA regulation.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372): This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

XI. KEY AND COMMENTS

NA = Not Applicable
NE = None (not) Established

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE WHETHER ORIGINATING WITH SAWYER PRODUCTS INCORPORATED OR NOT. SAWYER PRODUCTS INCORPORATED PROVIDES NO WARRANTY EITHER EXPRESS OR IMPLIED, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS OF THE DATA. RECIPIENTS ARE ADVISED TO CONFIRM ANY DATA, IN ADVANCE OF NEED, THAT IT IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.