SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAWYER PERMETHRIN 40% Manufacturing Concentrate 2778
PRODUCT DESCRIPTION: An Insecticide for Manufacturing/ Formulation Use Only.
ACTIVE INGREDIENT(S): Permethrin

MANUFACTURER
Sawyer Products
PO Box 188
Safety Harbor, FL 34695
Emergency Contact: SafetyCall®
E-Mail: mgk-sds@mgk.com
Emergency Phone: 1(888) 740-8712
Alternate Emergency Phone: 1(952) 852-9509
Service Number: 1(800) 645-6466

24 HR. EMERGENCY TELEPHONE NUMBERS
FOR TRANSPORTATION:
CHEMTREC® U.S. and CANADA: 1(800) 424-9300
CHEMTREC® All Other Areas: 1(703) 527-3887

COMMENTS: MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to 1-888-740-8712 or 1-952-852-9509 outside of the U.S.A.

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATIONS

<table>
<thead>
<tr>
<th>Health</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Toxicity (Oral), Category 4</td>
<td>Acute Hazards to the Aquatic Environment, Category 1</td>
</tr>
<tr>
<td>Acute Toxicity (Dermal), Category 4</td>
<td></td>
</tr>
<tr>
<td>Acute Toxicity (Inhalation), Category 4</td>
<td></td>
</tr>
<tr>
<td>Skin Sensitization, Category 1B</td>
<td></td>
</tr>
</tbody>
</table>

GHS LABEL
SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

SAFETY DATA SHEET (GHS)

Date Issued: 06/22/2019
Date-Revised: 06/22/2019
MSDS No: 002778A
Revision No: 1

Environment (GHS 09)

WARNING
H400: Very toxic to aquatic life.

Flame (GHS 02)

WARNING
H227: Combustible liquid.

Skull and crossbones (GHS 06)

DANGER
H301: Toxic if swallowed.
H312: Harmful in contact with skin.
H333: May be harmful if inhaled.

PRECAUTIONARY STATEMENT(S)

Prevention:
P202: Do not handle until all safety precautions have been read and understood.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P331: Do NOT induce vomiting.

Storage:
P403+P233: Store in a well-ventilated place. Keep container tightly closed.

Disposal:
P501: Dispose of contents/container to an approved waste disposal plant.

COMMENTS: This material is considered hazardous by the 2012 OSHA Hazard Communication Standard [29 CFR 1910.1200(a)(1)], and the G.H.S.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
<th>CAS</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>40</td>
<td>52645-53-1</td>
<td>258-067-9</td>
</tr>
<tr>
<td>Petroleum Distillates</td>
<td>10 - 20</td>
<td>64742-47-8</td>
<td>265-149-8</td>
</tr>
</tbody>
</table>

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES
SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: OSHA-COMBUSTIBLE LIQUID

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product will support combustion and may decompose to give off toxic gases such as Carbon Monoxide, Carbon Dioxide, and nitrogen oxides. Chlorine gas and Hydrogen Chloride may also be formed under fire conditions.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains Pyrethroids, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state/provincial and federal/national regulations.

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton. Wear a long-sleeved shirt and long pants, shoes and socks. Mechanical ventilation should be used when handling this product in enclosed spaces. Do not contaminate water, food or feedstuffs by storage, handling, or disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE PRODUCT LABEL.

STORAGE: Store in a cool, dry place, under lock and key. Keep container closed. Post as a pesticide storage area. Keep away from heat, sparks, open flame, and any other ignition sources. Keep away from strong acids, bases and oxidizers. Always store...
SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

pesticides in the original container. Store away from food, pet food, feed, seed, fertilizers, and veterinary supplies. Place liquid formulations on lower shelves, and dry formulations above.

KEEP OUT OF REACH OF CHILDREN

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>SupplierOEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ppm</td>
<td>mg/m³</td>
<td>ppm</td>
</tr>
<tr>
<td>Permethrin</td>
<td>TWA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Petroleum Distillates</td>
<td>TWA [1]</td>
<td>5 [1]</td>
<td>[1]</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

OSHA TABLE COMMENTS:
1. As oil-mist, if generated.

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Take prudent precautions to avoid contact with eyes.

SKIN: Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton, and wear protective clothing.

PROTECTIVE CLOTHING: Wear a long-sleeved shirt and long pants, shoes and socks.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!
Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Solvent odor.

APPEARANCE: Dark, amber-colored liquid.

COLOR: 1.5 on Gardner Scale.

pH: 4.75

Notes: @ 5% in water.

FLASHPOINT AND METHOD: 78.3°C (173°F) TAG Closed Cup

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Determined

SOLUBILITY IN WATER: Partially miscible in water.
SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

SPECIFIC GRAVITY: 1.017 (Water = 1) at 20 °C (68 °F)
VISCOSITY #1: 20 CPS at 24°C (75.2° F) Brookfield
(VOC): < 43.000 %
COMMENTS: Refractive Index = 1.4980 @ 25°C (77°F)

10. STABILITY AND REACTIVITY

STABLE: Yes
HAZARDOUS POLYMERIZATION: No
CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: See Section 5 for combustion products.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: > 5000 mg/kg
Notes: Albino rabbit.
ORAL LD₅₀: ~ 310.2 mg/kg
Notes: Albino rat.
INHALATION LC₅₀: > 2.05 mg/L
Notes: Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC₅₀ of this material places it in EPA Toxic Category IV.

EYE EFFECTS: Mild eye irritation, clearing within 72 hours (Albino rabbits).
SKIN EFFECTS: Moderate irritation at 72 hours. Produced a primary skin Irritation Index of 2.3
SENSITIZATION: Positive.
GENERAL COMMENTS: Some or all of the toxicity data reported above was bridged from a substantially similar formula.
COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, 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 product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: To avoid wastes, use all materials in the containers by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (NOTE: such programs are often run by state or local governments, or by industry).

EMPTY CONTAINER: Non-refillable container. DO NOT reuse or refill this container. Triple-rinse container (or equivalent)
promptly after emptying.

Triple-rinse as follows for containers less than < 5 gallons (< 18.9 L) or less: Empty the remaining contents into application equipment or a mix-tank and drain for 10 seconds after the flow begins to drip. Fill the container $\frac{1}{4}$ full with water and re-cap. Shake for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Triple-rinse as follows for containers greater than > 5 gallons (> 18.9 L): Empty the remaining contents into application equipment or a mix-tank. Fill the container $\frac{1}{4}$ full with water. Replace and tighten closures. Tip container on its side and roll back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, offer for recycling if available, or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

**RCRA/EPA WASTE INFORMATION:** None of the ingredients in this product appear on the RCRA lists (40 CFR 261.24, 40CFR 251.33) or CERCLA Hazardous Substance list (40 CFR Part 302 Table 302.4)

### 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**OTHER SHIPPING INFORMATION:** This material is not regulated by the DOT as a hazardous material when shipped in Non-Bulk quantities (i.e., less than 119 Gallon's / 450 Liter's).

When shipping in Bulk-quantities (i.e., more than 119 Gallon's / 450 Liter's), please contact MGK® for the proper shipping description.

**AIR (ICAO/IATA)**

**SHIPPING NAME:** Insecticides, Insect or Animal Repellent, Liquid, N.O.S.

**PRIMARY HAZARD CLASS/DIVISION:** Non-Hazardous

**NOTE:** Not considered hazardous by IATA/ ICAO regulations for transportation via air in Non-Bulk quantities.

**VESSEL (IMO/IMDG)**

**SHIPPING NAME:** Not Available

### 15. REGULATORY INFORMATION

**UNITED STATES**

**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**

**FIRE:** Yes  **PRESSURE GENERATING:** No  **REACTIVITY:** No  **ACUTE:** Yes

**313 REPORTABLE INGREDIENTS:**

**COMPONENT, CAS#, Max %**

Permethrin, 052645-53-1, 40.0

**302/304 EMERGENCY PLANNING**
SAWYER® PERMETHRIN 40% Manufacturing Concentrate 2778

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

There are no components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4) in this formulation.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

REGULATIONS

STATE REGULATIONS:

VOLATILE ORGANIC COMPOUNDS (VOC):

This product contains less than 43% VOC’s.

FIFRA (FEDERAL INSECTICIDE, FUNGICIDE, AND RODENTICIDE ACT):

NOTE: 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, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

WARNING. May be fatal if swallowed. Avoid contact with skin, eyes, and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE):

Wear chemical-resistant gloves such as Barrier Laminate, Neoprene Rubber, Nitrile Rubber, or Viton.

Wear a long-sleeved shirt and long pants, shoes and socks.

16. OTHER INFORMATION

REVISION SUMMARY: This MSDS replaces the 3/27/2015 MSDS. Revised: Section 11: COMMENTS, GENERAL COMMENTS, MUTAGENICITY, SENSITIZATION, TERATOGENIC EFFECTS. Section 16: HMIS RATING - HEALTH.

HMIS RATING

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

COMMENTS: The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

MSDS Prepared by John T. Smith