







# SAFETY DATA SHEET (GHS)

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

## 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)							
		EXPOSURE LIMITS					
		OSHA PEL		ACGIH TLV		SupplierOEL	
Chemical Name		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Permethrin	TWA	None		None			10
	STEL						
Petroleum Distillates	TWA	[1]	5 [1]	[1]	5 [1]	100	525
	STEL				10		

**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.

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**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 LD<sub>50</sub>:** > 5000 mg/kg

**Notes:** Albino rabbit.

**ORAL LD<sub>50</sub>:** ~ 310.2 mg/kg

**Notes:** Albino rat.

**INHALATION LC<sub>50</sub>:** > 2.05 mg/L

**Notes:** Rats exposed for 4 hours to test atmosphere. The Acute Inhalation LC<sub>50</sub> 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)

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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

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**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**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>2</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>1</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

**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