



# AVENGER PRODUCTS, LLC

## Safety Data Sheet

Issuing Date: 13 Sep 2023

Revision Date: 13 Sep 2023

Revision Number: 8

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Avenger® Weed Killer Concentrate

**EPA Reg. Number:** 92967-1  
**Description:** Liquid Herbicide Concentrate  
**Chemical Composition:** Liquid Concentrate

**Company:** Avenger Products, LLC

**Address:** 3057 Summer Oak Place,  
Buford, GA 30518

**Supplier Phone Number:** Phone: (678) 546-5009

**Supplier Email:** [support@avengerorganics.com](mailto:support@avengerorganics.com)





**Emergency Telephone Number:** Info Trac Chemical Response System  
 1-800-535-5053 (USA/Canada-24 hours)      1-352-323-3500 (International)

### 2. HAZARDS IDENTIFICATION

**Classification:**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA Hazards: Flammable, Irritant, Target organ effects  
 Target Organs: Kidney, Liver, Lung

<b>Emergency Overview</b>		
<b>Signal Word:</b>	<b>Danger</b>	
   		
<b>Appearance:</b> Clear, slightly yellow	<b>Physical State:</b> Non-viscous Liquid	<b>Odor:</b> Citrus
<b>GHS Classification:</b>		
Flammable Liquids Skin Irritant Aspiration Hazard Acute Aquatic Toxicity Chronic Aquatic Toxicity	Category 3 Category 2 Category 1 Category 1 Category 1	

**GHS Label Elements, including precautionary statements:**

<b>H226</b>	Flammable liquid and vapor
<b>H304</b>	May be fatal if swallowed and enters airways
<b>H315</b>	Causes skin irritation
<b>H410</b>	Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

<b>P261</b>	Avoid breathing dust / fumes / gas / mist / vapors / spray
<b>P270</b>	Do not eat, drink or smoke when using the product
<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources
<b>P240</b>	Ground and bond container and receiving equipment when transferring
<b>P243</b>	Take action to prevent static discharge
<b>P301 + P310</b>	IF SWALLOWED: Immediately call a POISON CENTER and seek medical advice
<b>P303 + P361 + P353</b>	OF ON SKIN (or hair): Remove contaminated clothing immediately. Rinse skin with water or shower..
<b>P391</b>	Collect spillage
<b>P233</b>	Keep container tightly closed
<b>P403 +P235</b>	Store in well ventilated location. Keep cool.
<b>P273</b>	Avoid release to the environment.

**Potential Health Effects:**

<b>Eyes</b>	May cause eye irritation
<b>Inhalation</b>	May cause respiratory tract irritation
<b>Skin</b>	May cause skin irritation
<b>Ingestion</b>	May be harmful if swallowed

**NFPA Ratings**

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>
<b>Specific hazard</b>	<b>Not Available</b>

**HMIS Ratings**

<b>Health</b>	<b>2</b>
<b>Fire</b>	<b>2</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal</b>	<b>Not Available</b>

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

<b>Chemical Name</b>	<b>CAS No.</b>	<b>Weight-%</b>	<b>Trade Secret</b>
d-Limonene (95% technical grade)	5989-27-5	70% - 78%	-
Castor oil ethoxylate (100%)	61791-12-6	5 to 9%	-
Polyethylene glycol nonylphenol (100%)	9016-45-9	5 to 9%	-
Caprylic acid	124-07-2	10 - 15%	-

**4. FIRST AID MEASURES**

<b>General Advice:</b>	Show this Safety Data Sheet to the doctor in attendance.
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for 15 minutes, also under the eyelids. If symptoms persist, call a physician. Do not use with contact lenses.
<b>Skin Contact:</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions, see a physician. May cause an allergic skin reaction.
<b>Inhalation:</b>	Remove to fresh air. If symptoms persist, seek medical assistance.
<b>Ingestion:</b>	Do NOT induce vomiting. Rinse mouth with plenty of water, then drink 1 glass of water.

**Indication of any immediate medical attention and special treatment needed:**

Notes to Physician: Treat symptomatically. May cause sensitization of susceptible persons.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Carbon dioxide, foam or dry chemical.

**Unsuitable Extinguishing Media**

Water.

**Specific Hazards Arising from the Chemical**

SCBA recommended. Smother to exclude air. Do not use water, handle as an oil fire.

**Hazardous Combustion Products**

Combustible liquid, keep away from heat, sparks and open flame.

**6. ACCIDENTAL RELEASE MEASURES****Personal Precautions (protective equipment and emergency procedures)**

**Personal Precautions:** Avoid contact with eyes and skin. Wear eye protection and skin protection.

**Environmental Precautions**

**Environmental Precautions:** Refer to protective measures listed in Sections 7 and 8.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment:** Prevent further leakage or spillage if safe to do so. Soak up with adsorbent material.

**Methods for Cleaning up:** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

**7. HANDLING AND STORAGE****Precautions for Safe Handling**

**Handling:** Combustible liquid. Store in original container, preferably in locked storage area.

**Conditions for Safe Storage (including any incompatibilities)**

**Storage:** Keep container tightly closed, away from heat and sparks.

**Incompatible Products:** None known based on information supplied.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Personal Protective Equipment:** Applicators and other handlers must wear long sleeved shirt and pants. Shoes with socks and appropriate protective gear. Safety glasses and protective clothing.

**Other Exposure Guidelines:** No data available

### Appropriate Engineering Controls

**Engineering Measures** Showers, Eyewash stations, Ventilation systems

### Individual Protection Measures (such as personal protective equipment)

**Eye / Face Protection:** Wearing safety glasses with side shields (or goggles) is recommended.

**Skin and Body Protection:** Wearing of protective gloves and protective clothing is recommended.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Take off contaminated clothing and wash before reuse.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

**Physical State / Appearance:** Clear, slight yellow liquid

**Odor:** Orange or lemon-lime aroma

**Odor Threshold:** No data available

**pH:** 4.8 (1% solution v/v at 23°C)

**Flash Point:** 52 °C / 122 °F (TAG closed cup)

**Upper / Lower Flammability Limit:** No data available

**Flammability (solid, gas):** No data available

**Flammability Limit in Air:** No data available

**Upper Flammability Limit:** No data available

**Lower Flammability Limit:** No data available

**Vapor Pressure:** No data available

**Vapor Density:** No data available

**Specific Gravity:** 0.854 g/mL (53.3 lb/cu.ft.) at 20°C (68°F)

**Water Solubility:** No data available

**Initial Boiling Point:** No data available

**Partition Co-Efficient (n-octanol/water):** No data available

**Autoignition Temperature:** No data available

**Decomposition Temperature:** No data available

**Dynamic Viscosity:** No data available

**Evaporation Rate:** No data available

**Melting / Freezing Point:** No data available

**VOC Content (%):** No data available

## 10. STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions:</b>	None under normal processing.
<b>Hazardous Polymerization:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	None known based on information supplied.
<b>Incompatible Materials:</b>	None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

<b>Product Information:</b>	Product does not present an acute toxicity hazard based on known or supplied information. Based on d-Limonene, the primary ingredient.
<b>Overview:</b>	Not acutely toxic
<b>Eye Contact:</b>	Moderate irritancy
<b>Skin Contact Irritancy:</b>	Moderate in Guinea pigs, low in Rabbits
<b>Ingestion:</b>	LD <sub>50</sub> > 5g/Kg, rabbit
<b>Inhalation:</b>	LC <sub>50</sub> > 1000ppm
<b>Chronic Toxicity:</b>	No known effect based on information supplied. Not Listed as carcinogen.
<b>Target Organ Effects:</b>	Skin
<b>Aspiration Hazard:</b>	No information available.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	Specific data regarding toxicity to fish and other aquatic organisms is not available for this product. Care should always be taken to prevent insecticides from entering aquifers. Product may be toxic to aquatic life.
<b>Persistence and Degradability:</b>	No information available.
<b>Bioaccumulation:</b>	No information available.
<b>Other Adverse Effects:</b>	Moderate in Guinea pigs, low in Rabbits

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

<b>Disposal Methods:</b>	This material, as supplied, is considered a hazardous waste according to Federal regulations (40 CFR 261). If this product becomes a waste, it would be expected to meet the criteria of a RCRA ignitable hazardous waste (D001). However, it is the responsibility of the generator to determine at the time of disposal the proper classification and method of disposal. Do not puncture or incinerate containers, even empty. Dispose in accordance with federal, state, and local regulations.
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**Contaminated Packaging:** Dispose of contents/containers in accordance with local regulations.

**US EPA Waste Code::** D001 (Flammable)

**California Hazardous Waste Code:** 232 (Pesticides)

## 14. TRANSPORT INFORMATION

### DOT / IATA

**UN Number:** UN 2319  
**Proper Shipping Name:** Terpene Hydrocarbons, n.o.s. (d-Limonene)  
**Hazard Class:** 3  
**Packing Group:** III

### IMDG / IMO

**UN Number:** UN 2319  
**Proper Shipping Name:** Terpene Hydrocarbons, n.o.s. (d-Limonene)  
**Hazard Class:** 3  
**Packing Group:** III

## 15. REGULATORY INFORMATION

This SDS is prepared to meet the requirements of OSHA and the GHS, and may contain precautionary statements and signal words that are different than or in addition to the pesticide label, which is regulated through the US EPA under Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA").

### US Federal Regulations

This product is registered with the U.S. Environmental Protection Agency (EPA) as a herbicide (EPA Registration Number: 92967-1)

## 16. OTHER INFORMATION

This SDS is prepared to meet the requirements of OSHA and the GHS, and may contain precautionary statements and signal words that are different than or in addition to the pesticide label, which is regulated through the US EPA under Federal Insecticide, Fungicide and Rodenticide Act ("FIFRA").

**Prepared By:** Avenger Products, LLC  
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Buford, GA 30518

Phone: (678) 546-5009

**Revision Date:** Sep 13 2023  
**Revision Note:** Version: 8 Updating of Section 13 Disposal

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

