

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)



1. IDENTIFICATION

PRODUCT NAME: GRASSMASTER HERBICIDE

DESCRIPTION: A liquid herbicide.

EPA Reg. No.: 81927-42

COMPANY IDENTIFICATION:

Alligare, LLC
1565 5th Avenue
Opelika, AL 36801

2. HAZARD IDENTIFICATION

DANGER

- Causes serious eye damage (H318)
- Harmful if swallowed (H302)
- May be harmful in contact with skin (H313)
- Harmful to aquatic life with long lasting effects (H412)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage / eye irritation	1	N/A	-
Acute toxicity, oral	4		
Acute toxicity, dermal	5	Environmental Hazards	Category
		Hazardous to the aquatic environment, long-term	3

HAZARDS NOT REQUIRING CLASSIFICATION

None.

PRECAUTIONARY STATEMENTS

- Do not eat, drink, or smoke when using this product. (P270)
- Wash hands and skin thoroughly after handling. (P264)
- Wear eye protection and face protection. Refer to Section 8 for specific PPE requirements. (P280)
- Avoid release to the environment not in accordance with the product label. (P273)
- IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or Poison Center. (P305+P351+P338+P310)
- IF SWALLOWED:** Call a Poison Center/Doctor if you feel unwell. Rinse mouth. (P301 +P312+P330)
- IF ON SKIN:** Call a Poison Center/Doctor if you feel unwell. (P302 +P312)
- Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
2,4-D DMA	Dimethylamine Salt of 2,4-Dichlorophenoxyacetic Acid	2008-39-1	36.0%
Diamba DMA	Dimethylamine Salt of 3,6-Dichloromethoxybenzoic Acid	2300-66-5	12.5%

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor or poison control center.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIREFIGHTING MEASURES

Flash point (Closed Cup): N/A (aqueous solution)

Flammable Limits (LFL-UFL): Not determined.

Fire and Explosion Hazards: Not a fire or explosion hazard.

Means of Extinction: Water fog, foam, dry chemical or CO₂

Fire Fighting Instructions: Evacuate nonessential personnel to prevent exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area and equipment until decontaminated. Dike and collect any runoff to prevent entry to drains or water bodies.

Firefighting Equipment: Self-contained breathing apparatus and full bunker gear.

Hazardous Combustion Products: Thermal decomposition may produce toxic gasses such as hydrogen chloride and oxides of carbon and nitrogen.

NFPA Ratings: Health – 3 / Flammability – 1 / Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this SDS. Control spill at the source and prevent material from entering soil, sewers, waterways or low areas. If necessary, dike spill using absorbent or impervious materials such as clay or sand. Recover materials for reuse or disposal by pumping any free liquid into appropriate closed containers, do not flush to drain.

Large spills to soil may require removal of topsoil with the affected area removed and placed into appropriate containers for disposal. Large spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

7. HANDLING AND STORAGE

Handling: Keep out of reach of children. Do not get in eyes or on clothing, avoid contact with skin and avoid inhaling vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Storage: Always store pesticides in a secured warehouse or storage building. Do not store below temperature of 32°F or above 100°F. Store in original container in a well-ventilated area separately from fertilizer, feed, and foodstuffs. Keep container tightly closed when not in use. Reduce stacking height where local conditions can affect package strength.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Handle only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Wear long sleeved shirt, long pants, shoes, socks, chemical-resistant gloves and a face shield or goggles. When mixing, loading or cleaning up spills or equipment or otherwise exposed to concentrate, wear a chemical-resistant apron.

General: Wash clothing and other absorbent materials that have been exposed to this product. Follow the manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber liquid	pH:	8.3-8.7
Odor:	Mild amine odor	Kinematic viscosity:	9.507 cps @ 25°C
Melting/freezing point:	Not available	Solubility:	Soluble
Boiling point/Boiling range:	Not available	Partition coefficient:	Not available
Flammability:	Not available	Vapor pressure:	Not available
Flammability limits (upper/lower):	Not available	Density:	9.69 lbs/gal
Flash point:	None	Relative vapor density:	Not available
Auto-ignition temperature:	Not available	Particle characteristics:	Not available
Decomposition temperature:	Not available		

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat. Do not store near heat or flame.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

HAZARDOUS DECOMPOSITION PRODUCTS: May release toxic gasses when thermally decomposed.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents, bases and acids.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ORAL TOXICITY (rat LD₅₀): 1,256 mg/kg

DERMAL TOXICITY (rat LD₅₀): > 5,000 mg/kg

INHALATION TOXICITY (rat LC₅₀): > 2.07 mg/L (4-hour)

EYE IRRITATION: Rabbit – Severely irritating

SKIN IRRITATION: Rabbit – Slightly irritating

SKIN SENSITIZATION: Not a contact sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed

IARC: Class 2B (chlorophenoxy herbicides)

NTP: Not Listed

OSHA: Not Listed

MUTAGENIC TOXICITY: Little evidence of mutagenic effects during *in vivo* or *in vitro* studies.

REPRODUCTIVE TOXICITY: No evidence in animal studies.

12. ECOLOGICAL INFORMATION

This product is toxic to fish and aquatic invertebrates.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

The following information is for the active ingredient, 2,4-D DMA:

AQUATIC TOXICITY

Bluegill (96-hr LC₅₀): 524 mg/L

Rainbow Trout (96-hr LC₅₀): 250 mg/L

Daphnia (48-hr EC₅₀): 184 mg/L

AVIAN TOXICITY

Bobwhite Quail (Oral LD₅₀): > 500 mg/kg

Mallard Duck (8-day Dietary LC₅₀): > 5,620 ppm

The following information is for the active ingredient, Dicamba:

AQUATIC TOXICITY

Bluegill (96-hr LC₅₀): 135 mg/L

Rainbow Trout (96-hr LC₅₀): 135 mg/L

Daphnia (48-hr EC₅₀): 110 mg/L

AVIAN TOXICITY

Bobwhite Quail (8-day Dietary LC₅₀): > 10,000 ppm

Mallard Duck (8-day Dietary LC₅₀): > 10,000 ppm

13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by disposal.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law and may contaminate groundwater. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

UN Number:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, Liquid, N.O.S. (contains 2,4-D DMA, Dicamba)
Transport Hazard Class:	9
Packing Group:	III
Marine Pollutant:	No
Hazardous Substance RQ:	2,4-D Acid (CAS #94-75-7): RQ 100 lbs. (35 gallons of product) Dicamba (CAS #1918-00-9): RQ 1,000 lbs. (1,000 gallons of product)
Labels / Placards:	US-DOT: Class 9 Environmentally Hazardous Substance ¹ IMDG, IATA: Class 9 Environmentally Hazardous Substance ²
Emergency Guide:	171 (NAERG – North American Emergency Response Guide)
¹ US-DOT Note:	Not regulated for “ground only” shipments in containers < 35 gallons.
² IMDG / IATA Note:	Not regulated when shipped in single or inner packaging ≤ 1.3 gal (5 L).

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the 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:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes, on skin, or on clothing.

See inside label booklet for additional Precautionary Statements and Directions for Use including Storage and Disposal instructions.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff may be hazardous to aquatic organisms in water adjacent to treated areas, and nontarget plants. Do not contaminate water when disposing of equipment washwaters or rinsate.

Groundwater Contamination

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or groundwater.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of groundwater supplies. Use of closed systems for mixing or transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

Endangered Species Concerns

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of federal law.

15. REGULATORY INFORMATION (CONT.)

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPATSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate, Delayed

SARA Title III – Section 312 Threshold Planning Quantity

N/A

SARA Title III – Section 313 Reportable Ingredients

2,4-D Acid (CAS #94-75-7): 29.9%

Dicamba (CAS #1918-00-9): 10.4%

CERCLA –

2,4-D Acid (CAS #94-75-7): RQ 100 lbs. (35 gallons of product)

Dicamba (CAS #1918-00-9): RQ 1,000 lbs. (1,000 gallons of product)

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the state of California to cause cancer or reproductive toxicity.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

THIS INFORMATION IN THIS SDS IS BASED ON DATA AVAILABLE AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT ALLIGARE, LLC TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS. JUDGMENTS AS TO THE SUITABILITY OF THE INFORMATION HEREIN FOR THE INDIVIDUAL'S OWN USE OR PURPOSES IS NECESSARILY THE INDIVIDUAL'S OWN RESPONSIBILITY. ALTHOUGH REASONABLE CARE HAS BEEN TAKEN IN THE PREPARATION OF SUCH INFORMATION, ALLIGARE, LLC EXTENDS NO WARRANTIES, MAKES NO REPRESENTATIONS, AND ASSUMES NO RESPONSIBILITY AS TO THE ACCURACY OR SUITABILITY OF SUCH INFORMATION FOR APPLICATION TO THE INDIVIDUAL'S PURPOSES OR THE CONSEQUENCES OF ITS USE.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

SDS Version: 1.0

Effective Date: 01/20/2023