

SAFETY DATA SHEET

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

Product Name: AGRI STAR MCPA DMA 500

PCP Reg. No.: 27858

Product use: Herbicide

Supplier's name and address:

Albaugh, LLC
1525 NE 36th St.
Ankeny, IA 50021
1-800-247-8013

Emergency Telephone #:
1-800-424-9300 (CHEMTREC)

SECTION 2 — HAZARDS IDENTIFICATION

Physical Hazards: None

Health Hazards:	Serious eye damage –	Category 1
	Skin Irritation –	Category 3
	Acute Toxicity (Oral) –	Category 4
	Acute Toxicity (Inhalation) –	Category 4
	Acute Toxicity (Dermal) –	Category 5

Environmental Hazards: None

Signal Word: DANGER

Hazard Statements: Causes serious eye damage. Causes mild skin irritation. Harmful if swallowed. Harmful if inhaled. May be harmful in contact with skin.



Precautionary Statements: Causes serious eye damage. Wear goggles or face shield during mixing/loading. Wash concentrate from skin or eyes immediately. Causes mild skin irritation. May be harmful in contact with skin. Avoid contact with skin, eyes and clothing. After use, wash hands and other exposed skin. Wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Harmful if swallowed.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component	CAS No.	Percentage (%)
MCPA Dimethylamine salt	94-76-5	42-46

Other ingredients are considered non-hazardous.

Content Listed on Product Label
MCPA, present as dimethylamine salt..... 500 g a.e./L

SECTION 4 — FIRST AID MEASURES

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 a 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 treatment advice.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Take the container, label or product name and Pest Control Product Registration Number with you when calling a poison control center or doctor or going for treatment.

SECTION 5 — FIRE FIGHTING MEASURES

Extinguishing Media: Water fog, alcohol foam, carbon dioxide, dry chemical.

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Minimize and contain water runoff.

Flash Point:No data

Conditions of Flammability:None

Hazardous Decomposition Products: ...Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides and carbon oxides.

National Fire Protection Association (NFPA) Hazard Rating:

Rating for this product: **Health: 2** **Flammability: 1** **Reactivity: 0**

Hazards Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Use safety equipment and procedures appropriate to the size of the spill. Keep unnecessary people away. Avoid runoff to natural waters and sewers. Surround and absorb spills with inert material such as perlite, sawdust, clay granules, vermiculite, sand or dirt. Contain all affected material in a closed, labeled container for proper disposal. Isolate from other waste materials. Clean contaminated area such as hard surfaces with detergent and water, collecting cleaning solution for proper disposal. Large spills to soil or similar surfaces may necessitate removal of top soil.

SECTION 7 — HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes and clothing. Wear goggles or face shield during mixing/loading. Wear coveralls over a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Rinse gloves before removal. After use, wash hands and other exposed skin. Remove and wash contaminated clothing before reuse. Avoid breathing spray mist. Do not eat, drink or smoke when using this product.

Storage: Store the container tightly closed away from seeds, fertilizer, plants and foodstuffs. May be stored at any temperature. Shake well before using.

SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters:

Component	TWA*	STEL*	Note
MCPA-dimethylammonium	NE	NE	None found

*Time Weighted Average, 8-hour unless otherwise noted

**Short Term Exposure Level

N/E – Not Established

Engineering Controls: Use only outdoors or in a well-ventilated area.

Personal Protective Equipment: All handlers must wear a long-sleeved shirt, long pants, socks, shoes and chemical-resistant gloves. Wear goggles or face shield during mixing/loading.

Aerial applicators and applicators using a closed cab are not required to wear chemical-resistant gloves.

The field crew and the mixer/loaders must wear long-sleeved shirt, long pants and coveralls, chemical resistant gloves and goggles or face shield during mixing/loading, cleanup and repair.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Note: Physical data are typical values but may vary from sample to sample. A typical value should not be construed as a guaranteed analysis or as a specification.

Physical state and appearance: Clear amber to dark brown liquid
Odor: Pungent amine like
Odor Threshold: No data
pH: 7.5-9.0 (1% aqueous solution)
Melting Point: No data
Freezing Point: 32°F/ 0°C
Boiling Point: No data
Flash Point: No data
Evaporation Rate: No data
Flammability: No data
Explosive Limits: No data
Vapor Pressure: No data
Vapor Density: < 1 (water vapor)
Density: 1.12 to g/mL @ 68°F/20°C
Solubility: Water soluble
Partition Coefficient: No data
Auto Ignition Temperature: No data
Decomposition Temperature: No data
Viscosity: No data

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive

Chemical Stability: Stable under normal handling and storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Excessive heat. Do not store near heat or flame

Incompatible Materials: Avoid contact with strong acidic, basic or oxidizing agents.

Hazardous Decomposition Products: Under fire conditions, may produce gases such as hydrogen chloride, nitrogen oxides and carbon oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals. Data obtained on similar products and on components are summarized below.

Acute oral toxicity Rat, LD50: >1,000 mg/Kg

Acute dermal toxicity Rat, LD50: >2,000 mg/Kg

Acute inhalation toxicity Rat, LD50: >4.5 mg/L

Skin irritation Rabbit: Moderate

Eye irritation Rabbit: Corrosive

Skin sensitization Guinea Pig: Potential sensitizer

Mutagenicity: Mixed results in animal studies but weight of evidence indicate that MCPA is not mutagenic.

Chronic effects/carcinogenicity: IARC – 2B (chlorophenoxy herbicides)

Toxicity to reproduction/fertility: Animal studies have noted testicular effects and lower male fertility

Developmental toxicity/teratogenicity: ... Animal studies have noted decreased fetal body weight at doses toxic to mother animals.

SECTION 12 – ECOLOGICAL INFORMATION

This section is intended for use by eco-toxicologists and other environmental specialists. Data obtained on similar products and on components are summarized below.

Ecotoxicity: (Technical)

Aquatic Toxicity:

Rainbow trout: 96-Hour LC₅₀ (mg/L) 230

Bluegill sunfish: 96-Hour LC₅₀ (mg/L) >310

Daphnia: 48-Hour EC₅₀ (mg/L) 190

Algae: Selenastrum EC₅₀ (mg/L) 392

Avian toxicity

Bobwhite quail: Oral LD₅₀ (mg/kg) 390

Mallard duck: Dietary LC₅₀ (ppm) >5620 ppm

Arthropod toxicity:

Honey bee: Oral and Contact LD₅₀ >200 µg/bee

Soil organism toxicity, invertebrates:

Earthworm: No data

Persistence and Degradability: MCPA DMA rapidly dissociates to parent MCPA in the environment. In soil, MCPA is microbially degraded with typical half-life of approximately 10 to 14 days.

Bioaccumulation Potential: Negligible

HMIS Rating: 2 Health; 1 Flammability; 0 Reactivity

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE Pest Management Regulatory (PMRA)- APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS 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. Use, storage and disposal of pesticide products are regulated by product labeling and provincial legislation, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the PMRA-approved label.

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