

## **MATERIAL SAFETY DATA SHEET**

### **SECTION 1- Chemical Product and Company Identification**

Company Address:  
AgSaver™ LLC  
P.O. Box 131  
McGehee, AR 71654

Product Name: **Mepit™**  
Chemical Name: N, N-dimethylpiperidinium Chloride  
Chemical Family: Quaternary ammonium salt  
EPA Registration Number: 82070-2-83772

### **SECTION 2- Composition, Information of Ingredients**

Component	Percentage	CAS RN	OSHA PEL	ACGIH TLV
Mepiquat Chloride	4.2	24307-26-4	Not listed	Not listed

### **SECTION 3- Hazards Identification Summary**

#### Emergency Overview

**Caution!** Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

#### Potential Health Effects

Inhalation: Inhalation of large amounts of mists may result in respiratory irritation and possible narcosis.

Eye Contact: Contact with the eyes may result in slight irritation.

Skin Contact: Contact with the skin may result in slight irritation.

Ingestion: Ingestion of large amounts can result in difficulty breathing, decreased muscular coordination or control.

#### Carcinogenicity Information

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 a carcinogen.

### **SECTION 4- First Aid Measures**

If in eyes:	<ul style="list-style-type: none"><li>▪ Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>▪ Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
If swallowed:	<ul style="list-style-type: none"><li>▪ Call a poison control center or doctor immediately for treatment advice</li><li>▪ Have person sip a glass of water if able to swallow.</li><li>▪ Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>▪ Do not give anything by mouth to an unconscious person.</li></ul>

If on skin or clothing:	<ul style="list-style-type: none"><li>▪ Take off contaminated clothing.</li><li>▪ Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>
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### **SECTION 5 - Fire Fighting Measures**

#### Flammable Properties

Flash Point & Method: Not flammable

Flammable Limits: Not determined

Autoignition Temperature: None

NFPA 30 Storage Class: Not flammable

#### **FIRE FIGHTING HAZARDS & PROCEDURES**

Extinguishing Media: Use dry chemical, carbon dioxide, water fog, or foam.

Fire Fighting Equipment: Wear protective clothing and self contained breathing apparatus.

Hazardous Combustion Products: Combustion may generate Hydrogen chloride and oxides of nitrogen and hydrogen.

### **SECTION 6 – Accidental Release Measures**

#### Safeguards (Personnel)

Review fire fighting measures and handling (personnel) sections before proceeding with clean-up. Use appropriate personal protective equipment during clean-up.

#### Spill Clean Up

Spill or Leak Procedures: Spill material should be recovered for use according to label directions; otherwise, spill should be contained, solidified, and placed in suitable containers for disposal.

#### Small Spill

Absorb small spills on sand, vermiculite or other absorbent. Place contaminated material in appropriate chemical waste receptacle for disposal. Rinse area with water and place rinsate in chemical waste container for disposal

#### Large Spill

Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow any absorbed material to solidify, and scrape up for disposal. After removal, flush contaminated area thoroughly with water. Pick up liquid with additional absorbent and place in disposable container.

## **SECTION 7 – Handling and Storage**

Handling: Use only in a well-ventilated area. Do not reuse this container.

Storage: Keep container closed when not in use. Keep away from food, feed and drinking water.

Store in a well ventilated, dry place away from heat. Keep from freezing.

## **SECTION 8 – Exposure Controls, Personnel Protection**

### **Engineering Controls**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### **Personal Protective Equipment**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistant category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt and long pants.
- Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene and/or barrier laminate).
- Shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- Shoes plus socks.

## **SECTION 9 – Physical and Chemical Properties**

### **Physical Data**

Molecular Formula: C<sub>7</sub>H<sub>16</sub>CIN

Molecular weight: 114.2

Density: 8.37 lbs./gal.

Specific Gravity: Approximately 1.003

Solubility in Water: Completely soluble

pH: 7.20

Boiling Point: 100°C

Odor: None

Color: Red

Physical State: Liquid

### **SECTION 10 – Stability and Reactivity**

#### **Chemical Stability**

General: This material is stable under normal conditions.

Incompatible Materials: None

Conditions to Avoid: Do not allow product to freeze.

Hazardous Decomposition: Combustion may generate hydrogen chloride and oxides of nitrogen

Hazardous Polymerization: Material is not known to polymerize.

### **SECTION 11 – Toxicological Information**

Inhalation (technical): Acute inhalation LC50 > 3.2 mg/l per 7 hours

Oral (technical): Oral LD50 464 mg/kg (rat)

Dermal (technical): Dermal LD50 > 2000 mg/kg (rat)

### **SECTION 12 – Ecological Information**

Do not apply directly to water or to areas where water is present. Do not contaminate water when disposing of rinsate or equipment washwater. Do not contaminate water by cleaning of equipment.

#### **ECOTOXICOLOGY:**

Birds: Acute oral LD50: for bobwhite quail >2000 mg/kg b.w. (technical grade active ingredient)

Fish LC50 (96 h) for trout 4300 mg/l (technical grade active ingredient)

Bees: Non-toxic

Daphnia EC50 (48 h) 68.5 mg/l (technical grade active ingredient)

### **SECTION 13 – Disposal Considerations**

All waste must be handled in accordance with local, state and federal regulations. Contact a licensed professional waste disposal service to dispose of this material.

### **SECTION 14 – Transportation Information**

D.O.T. Classification: This product is considered to be non-hazardous for transport.

UN Number: None.

### **SECTION 15 – Transportation Information**

US Federal Regulations:

Clean Air Act: No

ODS: No

TSCA STATUS: Listed on Inventory

CERCLA SECTION 103 (40 C.F.R. § 302.4): Not Applicable

SARA SECTION 302 (40 C.F.R. § 355.30): Not Applicable

SARA SECTION 304 (40 C.F.R. § 355.40): Not Applicable

SARA (EPCRA) SECTION 313 (40 C.F.R. § 372.65): Not Applicable

SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 (40 C.F.R. § 370.21)

ACUTE HAZARD: Not Applicable

CHRONIC HAZARD: Not Applicable

FIRE HAZARD: Not Applicable

REACTIVITY HAZARD: Not Applicable

SUDDEN RELEASE HAZARD: Not Applicable

### **SECTION 16 – Other Information**

#### **DISCLAIMER OF WARRANTY**

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use are beyond our control. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user, and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses, which infringe valid patents, or as extending license under valid patents. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, republication or transmission of this document, in whole or in part, is not permitted. AgSaver™ LLC assumes no responsibility for accuracy of information unless the document is the most current available from an official AgSaver™ LLC distribution system. AgSaver™ LLC neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except in the United States of America.

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