

# Pramaxis<sup>TM</sup>

## MEC

## SAFETY DATA SHEET

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

### 1. IDENTIFICATION

**PRODUCT NAME:** Pramaxis MEC  
**DESCRIPTION:** A liquid herbicide  
**EPA REG. NO.:** 91234-174  
**COMPANY IDENTIFICATION:** Atticus, LLC  
940 NW Cary Parkway, Suite 200  
Cary, NC 27513

### 2. HAZARD IDENTIFICATION

#### WARNING

Causes serious eye irritation (H319)  
Suspected of damaging fertility or the unborn child (H361)  
Combustible liquid (H227)  
Toxic to aquatic life (H401)  
Harmful to aquatic life with long lasting effects (H412)



#### HAZARD CLASSIFICATION

Health Hazard	Category	Physical Hazard	Category
Serious eye damage/eye irritation	2A	Flammable liquids	4
Reproductive toxicity	2		
		Environmental Hazards	Category
		Hazardous to the aquatic environment, short-term	2
		Hazardous to the aquatic environment, long-term	3

#### HAZARDS NOT REQUIRING CLASSIFICATION

Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

#### PRECAUTIONARY STATEMENTS

Obtain, read, and follow all safety instructions before use. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Wash hands and exposed skin thoroughly after handling. Do not touch eyes. Wear eye protection/face protection and other protective clothing as described in Section 8. (P203+P210+ P264+P265+ P280)

**IF IN EYES:** Rinse eyes cautiously with water for several minutes, remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. (P305+P351+P338+P337+P317)

In case of fire: Use foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). (P370+P378)

If exposed or concerned, get medical advice. (P318)

Avoid release to the environment not in accordance with the product label. (P273)

Store in a well-ventilated place. Store locked up. (P403+P405)

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
Trinexapac-Ethyl	4-(Cyclopropyl-a-hydroxymethylene)-3,5-dioxo-cyclohexanecarboxylic acid	95266-40-3	11.3%
Tetrahydrofurfuryl Alcohol	--	97-99-4	Trade Secret

**NOTE:** Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

### 4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency medical assistance, call SafetyCall®: 1-844-685-9173. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC: 1-800-424-9300.

**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.

**NOTE TO PHYSICIAN:** If a large amount has been ingested, lavage stomach. An aqueous suspension of activated charcoal can be given to absorb remaining toxicant. Treat symptomatically.

### 5. FIREFIGHTING MEASURES

**Flash Point:** 85°C (184°F)

**Fire and Explosion Hazards:** Combustible liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point. Heavy vapors can flow along surfaces to distant ignition sources and flash back.

**Extinguishing Medium:** Foam, dry chemical, or carbon dioxide (CO<sub>2</sub>). If water is used to fight fire, dike and collect run off.

**Fire Fighting Equipment:** Firefighters should wear NIOSH approved self-contained breathing apparatus and full firefighting turn out gear.

**Fire Fighting Instructions:** Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

**Hazardous Combustion Products:** During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**NFPA Ratings:** Health – 2 / Flammability – 2 / Reactivity – 0

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

**Environmental Precautions:** Prevent material from entering public sewer systems or any waterways. Do not flush to drain.

**Spill Cleanup:** Clean up spills immediately observing precautions outlined in Section 8. Absorb spill with suitable material such as clay, sand, or dirt. Shovel (plastic or aluminum) or sweep up and collect in suitable container for disposal. Wash area with detergent and water, collect wash liquid with additional absorbent and place in compatible container for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin, or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

**Storage:** Store in a tightly closed container in a cool, dry, well-ventilated place. Store in original container and out of reach of children, preferably in a locked storage area.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower. Use effective engineering controls to comply with occupational exposure limits (if applicable).

**Protective Clothing:** Applicators and other handlers must wear: long-sleeved shirt and long pants,; chemical-resistant gloves (made of barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride  $\geq$  14 mils, or Viton  $\geq$  14 mils); and shoes plus socks.

**General:** Follow manufacturer's instructions for cleaning/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

<b>Appearance:</b>	light amber liquid
<b>Odor:</b>	mildly sweet and aromatic
<b>Melting/freezing point:</b>	not available
<b>Boiling point/Boiling range:</b>	not available
<b>Flammability:</b>	combustible
<b>Flammability limits (upper/lower):</b>	not available
<b>Flash point:</b>	184°F
<b>Auto-ignition temperature:</b>	not available
<b>Decomposition temperature:</b>	not available
<b>pH:</b>	3-4 (1% aq.)

<b>Kinematic viscosity:</b>	not available
<b>Solubility:</b>	not available
<b>Partition coefficient:</b>	not available
<b>Vapor pressure:</b>	not available
<b>Density:</b>	1.085 g/cm <sup>3</sup> @ 25°C
<b>Relative vapor density:</b>	not available
<b>Particle characteristics:</b>	not available

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** None known.

**CHEMICAL STABILITY:** Stable under normal use and storage conditions.

**INCOMPATIBILITY WITH OTHER MATERIALS:** Oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**ORAL TOXICITY (rat LD<sub>50</sub>):** > 5050 mg/kg

**DERMAL TOXICITY (rabbit LD<sub>50</sub>):** > 2,020 mg/kg

**INHALATION TOXICITY (rat LC<sub>50</sub>):** > 2.75 mg/L (4-hour)

**EYE IRRITATION:** Moderately irritating

**SKIN IRRITATION:** Non-irritating

**SKIN SENSITIZATION:** Not a contact sensitizer

**CARCINOGENICITY:**

**NTP:** Not listed

**IARC:** Not listed

**EPA:** Not likely to be carcinogenic to humans (trinexapac-ethyl)

**MUTAGENIC TOXICITY:** None

**REPRODUCTIVE/TERATOGENICITY TOXICITY:** No evidence in animal studies for the active ingredient. Reproductive effects observed in animal studies conducted using THFA.

**OTHER TOXICITY:** Liver, kidney, and brain effects in animals at high doses (>5000 ppm).

## 12. ECOLOGICAL INFORMATION

Trinexapac-ethyl is slightly toxic to fish. It is practically non-toxic to freshwater invertebrates and moderately toxic to estuarine-marine invertebrates. It is non-toxic to birds.

**The following information is for the active ingredient, Trinexapac-Ethyl:**

Rainbow Trout (96-hour LC<sub>50</sub>): 65.7 ppm

Green Algae (5-day EC<sub>50</sub>): <1.4 ppm

Blue-green Algae (5-day EC<sub>50</sub>): 0.35 mg/L

Mysid Shrimp (LC<sub>50</sub>): 6.5 mg/L

Daphnia (48-hour EC<sub>50</sub>): >142.5 ppm

Fathead minnow (NOAEC): 0.41 mg/L

Mallard Duck (14-day LD<sub>50</sub>): > 2,000 mg/kg

Trinexapac has low bioaccumulation potential and is not persistent in soil or water. It has moderate mobility in soil and sinks in water (after 24-hr).

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. 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

### US-DOT:

Containers ≤ 119 gal. (450 L):

Not regulated

Containers > 119 gal. (450 L):

NA1993, Combustible liquid, N.O.S. (tetrahydrofurfuryl alcohol), PG III

### IMDG:

Shipped internationally by vessel: Not regulated

### IATA:

Shipped internationally by air: Not regulated

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

**CAUTION** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash hands 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.

##### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Do not contaminate water by disposing of equipment washwaters or rinsate. Do not apply when weather conditions favor drift from treated areas.

##### PHYSICAL OR CHEMICAL HAZARDS:

Do not mix or allow to come in contact with oxidizing agents. Hazardous chemical reaction may occur.

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 EPA/TSCA.

**SARA Title III – Section 302 Extremely Hazardous Substances**  
Not listed

**SARA Title III – Section 311/312 Hazard Categories**  
Immediate (Acute), Delayed (Chronic), Fire

**SARA Title III – Section 312 Threshold Planning Quantity**

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

**SARA Title III – Section 313 Reportable Ingredients**

None

**CERCLA Reportable Quantity (RQ) –**

None

**CALIFORNIA PROP 65 STATUS –**

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

**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 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.

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