

MATERIAL SAFETY DATA SHEET

ArmorTech PGR 113 MC

United Turf Alliance, LLC

Emergency Phone: Poison Control 800-222-1222; National Pesticide Information Center 800-858-7378

Effective Date: September 21, 2010

EPA Reg. No. 86064-3

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: ArmorTech PGR 113 MC

EPA Registration Number: 86064-3

Chemical Name: 4-(Cyclopropyl-a-hydroxymethylene)-3,5-dioxo-cyclohexanecarboxylic acid ethylester

Chemical Formula: C₁₃H₁₆O₅

COMPANY IDENTIFICATION:

United Turf Alliance, LLC

8014 Cumming Highway, Suite 403-282

Canton, GA 30115

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Active Ingredient</u>	<u>CAS No.</u>	<u>% Composition</u>
Trinexapac-ethyl	95266-40-3	11.3%

3. HAZARD IDENTIFICATION

POTENTIAL HEALTH HAZARDS:

EYE – May cause eye irritation.

INHALATION – Exposure to high vapor levels may cause dizziness, headache, nausea, numbness, incoordination or other central nervous system effects.

MEDICAL CONDITIONS AGGRAVATED:

None known.

4. FIRST AID

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

Flashpoint (PMA-4): > 230°F

Flammable Limits (LFL-UFL): N/A

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.

Means of Extinction: Use appropriate extinguishing media for combustibles in the area.

Fire Fighting Instructions: Evacuate nonessential personnel from the area to prevent exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff may cause environmental damage and if water is used to fight a fire, dike and collect the runoff.

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

Hazardous Combustion Products: Thermal decomposition or combustion may produce irritating and possibly toxic gasses in a fire.

6. ACCIDENTAL RELEASE MEASURES

Control the spill at its source and contain the spill to prevent it from spreading or contaminating soil or from entering sewer and drainage systems or any body of water. Clean up spills immediately, observing the precautions outlined in Section 8 below. Cover the entire spill with absorbing material and place into an appropriate disposal container. Scrub the area with hard water detergent such as Tide, Joy, Spic and Span, etc. and pick up the wash liquid with additional absorbent material and place into an appropriate disposal container. Once all material is cleaned up and placed in a disposal container, seal the container and arrange for disposal.

7. HANDLING AND STORAGE

Keep out of reach of children and animals. Store in a cool, dry location and avoid excessive heat. Do not store below 0°F. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal. Wash thoroughly after handling this product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Applicators and other Handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as nitrile, butyl, neoprene or barrier laminate
- Shoes plus socks

Follow the 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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product concentrate. Do not reuse them.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid

pH: 3.53

Flashpoint (PMA-4): > 230°F

Density: 1.075 g/ml at 20°C

Viscosity: 44.114 at 20°C; 19.114 at 40°C

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Protect from excessive heat.

CHEMICAL STABILITY: Product is normally stable.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic and explosive gasses.

POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY

Oral LD₅₀ (rat, female): 5,000 mg/kg

ACUTE DERMAL TOXICITY

Dermal LD₅₀ (rat): > 5,000 mg/kg

ACUTE INHALATION TOXICITY

Inhalation LC₅₀ (rat): > 2.06 mg/L

EYE IRRITANT

Rabbit – Moderately irritating

SKIN IRRITATION

Rabbit – Slightly irritating

SENSITIZATION

Guinea pig – Not a Contact Sensitizer

CARCINOGENICITY:

ACGIH: Not listed

IARC: Not listed

NTP: Not listed

OSHA: Not listed

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: This pesticide has a low toxicity to wildlife and fish. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents

into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

14. TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: Not Regulated by DOT
DOT HAZARD CLASS OR DIVISION: N/A
DOT UN/NA NUMBER: N/A
DOT PACKING GROUP: N/A
REPORTABLE QUANTITY: N/A
MARINE POLLUTANT: Not Listed

15. REGULATORY INFORMATION

FIFRA –

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act. The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide.

OSHA HAZARD COMMUNICATION STANDARD STATUS: Not Regulated

SARA Title III – Section 302 Extremely Hazardous Substances
Not listed

SARA Title III – Section 311/312 Hazard Categories
Immediate

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 –
Not Listed.

CALIFORNIA PROP 65 STATUS –
Not listed

16. OTHER INFORMATION

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

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