

**1. IDENTIFICATION**

**Product name:** Armor Tech™ PGR 113

**Chemical name of active ingredient(s):** Trinexapac-ethyl: 4-(cyclopropylhydroxymethylene)-3,5-dioxocyclohexanecarboxylic acid

**Manufacturer:** FarmSaver.com, LLC  
4515 Falls of Neuse Road, Suite 300  
Raleigh, NC 27609  
Phone: 1-800-979-8994

**For fire, spill, and/or leak emergencies, contact CHEMTREC:** Phone: 1-800-424-9300  
Outside US, 1-703-527-3887

**For medical emergencies and health and safety inquiries, contact Prosar:** Phone: 1-800-308-5391

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

<u>COMMON NAME</u>	<u>CAS NO.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACIGH TLV</u>	<u>OTHER</u>	<u>NTP/IARC/OSHA (Carcinogen)</u>
Trinexapac-ethyl	19666-30-9	10-12	NE	NE	NA	NA
Tetrahydrofurfuryl Alcohol (THFA)	97-99-4	NL	NE	NE	NA	NA

NE=not established NA=not available NL=not listed

**3. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** May cause moderate eye irritation. Degree of injury will depend on amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Excessive inhalation exposure may cause irritation to upper respiratory tract and central nervous system effects. Brief contact may cause mild skin irritation and while prolonged skin contact is unlikely to result in absorption of harmful amounts, it may cause moderate skin irritation. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

**SYMPTOMS OF OVEREXPOSURE:** Symptoms of overexposure are headaches, dizziness, numbness, nausea, lack of coordination or other central nervous system effects.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition creates toxic and corrosive fumes.

**4. FIRST AID MEASURES**

**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 soap and water for 15-20 minutes.
- 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.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact PROSAR (800) 308-5391 for emergency medical treatment information.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 87°C (189°F)

**FLAMMABLE LIMITS:** Not applicable.

**EXTINGUISHING MEDIA:** Use carbon dioxide, dry chemical, water spray or foam.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may yield irritating and toxic fumes.

**FIRE-FIGHTING INSTRUCTIONS:** Remain upwind and avoid breathing smoke. Use water spray to cool containers exposed to fire. Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent) and full protective clothing. Prevent contamination of water by diking the area to contain run-off and dispose of fire control water appropriately.

**NFPA RATINGS:** Health: 2 / Flammability: 2 / Reactivity: 0

## 6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately observing the precautions in Section 8 of this MSDS. Isolate the hazard area and keep unnecessary and unprotected personnel from entering. Prevent material from contaminating soil or from entering sewage and drainage systems and bodies of water.

Dike spillage, pick up with suitable absorbent material and place in a compatible disposal container. After removal, wash contaminated area thoroughly with hard water detergent (e.g., Tide, Joy, Spic and Span) and collect wash water using additional absorbent material and place into a compatible disposal container. Seal containers and arrange for approved disposal.

## 7. HANDLING AND STORAGE

Do not allow to come into contact with skin, eyes and clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Store in a cool, dry place away from ignition sources and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a secured storage area. Do not allow to contaminate food or feed and segregate from textiles and other similar materials.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Engineering Controls:** 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 plus socks, and chemical resistant gloves such as nitrile, butyl, neoprene or barrier laminate.

**General:** Wash thoroughly with soap and water after handling. Discard clothing and other absorbent materials that have been heavily contaminated with this product; do not reuse them. 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

**Odor:** Odorless

**pH:** 3.63

**Specific Gravity:** 1.07g/cm<sup>3</sup> (20°C)

**Solubility in Water:** 10.2g/L (25°C)

## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Stable under normal use and storage situations.

**HAZARDOUS DECOMPOSITION PRODUCTS:** None known.

**INCOMPATIBILITY WITH OTHER MATERIALS:** None known.

**POLYMERIZATION:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

The following information is for the active ingredient (Trinexapac-ethyl):

### ACUTE ORAL TOXICITY

Oral LD<sub>50</sub> (rat): > 5,050 mg/kg

### ACUTE DERMAL TOXICITY

Dermal LD<sub>50</sub> (rat): > 2,020 mg/kg

### ACUTE INHALATION TOXICITY

Inhalation LC50 (rat): > 2.75 mg/l

### EYE IRRITATION

Rabbit – Moderately irritating

### SKIN IRRITATION

Rabbit – Non-irritating

### SENSITIZATION

Guinea Pig – Non-sensitizing

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** None known.

### CARCINOGENICITY

**ACGIH:** Not listed

**IARC:** Not listed

**NTP:** Not listed

**OSHA:** Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

**ADDITIONAL DATA:** Not known to cause reproductive or birth defects at normal exposure levels.

## 12. ECOLOGICAL INFORMATION

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 when disposing of equipment washwater or rinsate.

The following information is for the active ingredient (Trinexapac-ethyl):

### Acute Toxicity (LC<sub>50</sub>) to Aquatic Species

Rainbow Trout: 68 mg/L

Bluegill: > 130.1 mg/L

Daphnia magna: > 142.5 mg/L

### Active Ingredient Acute Toxicity (LD<sub>50</sub>) to Birds

Mallard Duck: > 2,000 mg/Kg

Bobwhite Quail: > 2,250 mg/Kg

### 13. DISPOSAL CONSIDERATIONS

**Do not contaminate water, food or feed by disposal.**

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, 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:** Rinse thoroughly at least three times and then offer for recycling or 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

**Containers < 119 Gallons: Not Regulated by DOT**

**Containers > 119 Gallons (Bulk Shipments):**

DOT PROPER SHIPPING NAME: NA 1993, Combustible liquid, n.o.s. (tetrahydrofurfuryl alcohol), 3, PG III

DOT HAZARD CLASS OR DIVISION: 3

DOT UN/NA NUMBER: 1993

DOT PACKING GROUP: III

REPORTABLE QUANTITY: N/A

DOT EMERGENCY RESPONSE GUIDE: 128

MARINE POLLUTANT: No

### 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.

**SARA Title III – Section 302 Extremely Hazardous Substances**

Not Listed

**SARA Title III – Section 311/312 Hazard Categories**

Immediate, Fire

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

N/A

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

None

**CERCLA –**

Not Listed.

**CALIFORNIA PROP 65 STATUS –**

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

### 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.

The information herein is given in good faith, but no warranty, either express or implied, is made. Consult FarmSaver.com, LLC. for further information.

MSDS REVISION HISTORY: Issued 04/05/2007.