

**1. IDENTIFICATION**

Product name: **Quali-Pro® T-NEX 11.3 ME (PCP Reg. No.: 30683)**

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

Manufacturer/Registrant: Makhteshim Agan of North America, Inc.  
3120 Highwoods Boulevard, Suite 100  
Raleigh, NC 27604  
Phone: 1-919-256-9300  
Phone: 1-800-535-5053

For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-877-250-9291

For medical emergencies and health and safety inquiries, contact Prozar:

**2. COMPOSITION / INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Trinexapac-ethyl	95266-40-3	11.3	NE	NE	NA	NA
Tetrahydrofurfuryl Alcohol (THFA)	97-99-4	NL	NE	NE	NA	NA

NE=not established NA=not applicable NL=not listed

**3. HAZARDS IDENTIFICATION****PHYSICAL PROPERTIES:**

**Appearance:** Amber liquid

**Odor:** Odorless

**EMERGENCY OVERVIEW:** WARNING Eye irritant Keep out of the reach of children. Keep people off treated area until foliage is dry. Causes eye irritation. DO NOT get in eyes. Do not get on skin or on clothing. Wear long sleeved shirt and long pants with coveralls and chemical resistant gloves for all mix/load and application activities and during equipment cleanup and repair activities. In addition, wear goggles during mix/load activities. DO NOT use leather or cloth gloves. Rinse gloves with soap and water before removal and wash hands. Do not eat, drink or smoke during application; wash hands and face thoroughly immediately following each application of this product.

**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 may yield irritating and toxic fumes.

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

**4. FIRST AID MEASURES****FIRST AID:**

**IF SWALLOWED:** Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

**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 centre 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 centre 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 centre or doctor for further treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** There is no specific antidote if this product is ingested. Treat symptomatically. Do not induce vomiting.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT:** 83°C (181.4°F)

**FLAMMABLE LIMITS:** Not available

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

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Combustible liquid. Can release vapours that form explosive mixtures at temperatures at or above the flash point. Heavy vapours can flow along surfaces to distant ignition sources and flash back. Keep fire exposed containers cool by spraying with water. During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

**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.

## 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 contaminate water, food, or feed by storage or disposal.

**PRECAUTIONS TO BE TAKEN IN HANDLING:** Wash thoroughly after handling. Do not get in eyes, on skin or on clothing. Do not breathe dust. Keep container closed. Wear long sleeved shirt and long pants with coveralls and chemical resistant gloves for all mix/load and application activities and during equipment cleanup and repair activities. In addition, wear goggles during mix/load activities. DO NOT use leather or cloth gloves. Rinse gloves with soap and water before removal and wash hands. Do not eat, drink or smoke during application; wash hands and face thoroughly immediately following each application of this product.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Do not use or store near heat or open flame. Keep from freezing. Store in original container in a secured, dry storage area. Store the tightly closed container away from seeds, fertilizers, plants and foodstuffs. Prevent cross contamination with other pesticides.

**STORAGE TEMPERATURE (MIN/MAX):** Keep from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.**

**FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.**

**SKIN PROTECTION:** Long-sleeved shirt and long pants. Shoes plus socks.

**HAND PROTECTION:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber.

**RESPIRATOR REQUIREMENTS:** In areas of inadequate ventilation a NIOSH-approved respirator or a self-contained breathing apparatus may be required.

**VENTILATION:** Whenever possible, adequate ventilation should be used to minimize the need for personal protective equipment.

**ADDITIONAL PROTECTIVE MEASURES:** Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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.

**USER SAFETY RECOMMENDATIONS:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**EXPOSURE GUIDELINES:** Refer to Section 2.

**ENGINEERING CONTROLS:** Use in a well ventilated area. General ventilation with a good source of make-up air recommended as minimum for indoor situations. Ventilation should be adequate to maintain air concentrations below flammable limits.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Amber liquid

**Odor:** Odorless

**pH:** 3.24

**FLASH POINT:** 83°C (181.4°F) **DENSITY:**

1.0644g/mL (25.1°C) **VISCOSITY:**

21.333@20.2°C;14.47@40.0°C

**10. STABILITY AND REACTIVITY**

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

**CONDITIONS TO AVOID:** Keep away from heat, open flames or other ignition sources.

**MATERIALS TO AVOID:** Strong oxidizing agents.

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

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY/IRRITATION STUDIES (Finished Product):**

Acute Oral LD <sub>50</sub> (Rat) :	> 5,500 mg/kg
Acute Dermal LD <sub>50</sub> (Rat) :	> 2,020 mg/kg
Acute Inhalation LC50 (Rat):	> 2.75 mg/L (4 hrs.)
Eye Irritation:	Moderately irritating
Dermal Irritation:	Non-irritating
Dermal Sensitization:	Not a skin sensitizer

**REPRODUCTIVE/DEVELOPMENTAL EFFECTS :**

Trinexapac-Ethyl Technical: None observed.

**CHRONIC/SUBCHRONIC TOXICITY STUDIES:**

3-6-13

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Trinexapac-Ethyl Technical: Liver, kidney and brain (dogs) effects at high doses (>5,000 ppm).

**CARCINOGENICITY:**

Trinexapac-Ethyl Technical: Slight increase in stomach tumors in male mice at high doses (2,000 ppm). Slight increase in forestomach tumors in male rats at high doses (20,000 mg/kg/day). The U.S. EPA has classified trinexapac-ethyl as "not likely to be carcinogenic to humans."

**TARGET ORGANS:**

Trinexapac-Ethyl Technical: Liver, kidney, brain

**TOXICITY OF OTHER COMPONENTS:**

Tetrahydrofurfuryl Alcohol (THFA): Inhalation of vapours at high concentrations can cause central nervous system effects (dizziness, headache), irritation to eyes or respiratory tract. Chronic overexposure may affect the kidney.

**TARGET ORGANS:**

Tetrahydrofurfuryl Alcohol (THFA): Central nervous system, kidney.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL HAZARDS:** 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 wash water. Do not apply when weather conditions favor drift from treated areas.

**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:** For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

**CONTAINER DISPOSAL:** Dispose of product containers, waste containers, and residues according to label instructions and provincial requirements.

**14. TRANSPORT INFORMATION**

**CANADIAN TDG CLASSIFICATION:**

Not regulated

**DOT CLASSIFICATION:**

**Non-bulk:** Not regulated

**Bulk (>119 gallons):** NA 1993, Combustible liquid, N.O.S. (tetrahydrofurfuryl alcohol), 3, PG III

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** Not regulated.

**IATA (air):** Not regulated

**15. REGULATORY INFORMATION**

**CANADIAN REGULATIONS:**

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

**SARA TITLE III CLASSIFICATION:**

Section 302: Not applicable.  
Section 311/312: Acute health hazard (immediate)  
Section 313: Not applicable.

**CA PROPOSITION 65:** Not applicable

**CERCLA RQ:** Not applicable

**RCRA CLASSIFICATION:** Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

**TSCA STATUS:** The ingredients of this product are listed on the TSCA inventory or are exempt.

**16. OTHER INFORMATION**

<b>HAZARD RATINGS</b>	<b>NFPA</b>	
<b>HEALTH:</b>	1	0 MINIMAL
<b>FLAMMABILITY:</b>	2	1 SLIGHT
<b>REACTIVITY:</b>	0	2 MODERATE
		3 HIGH
		4 SEVERE

**MSDS DATE:** 3-6-13. Supercedes version dated 10-11-12. Changes made to Section 1.

The information herein is given in good faith, but no warranty, either express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.