

1. IDENTIFICATION

Product name: **Quali-Pro® T-Nex® 1 AQ**

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

Manufacturer/Registrant: Makhteshim Agan of North America, Inc.
4515 Falls of Neuse Road, Suite 300
Raleigh, NC 27609
Phone: 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 Prosar:

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 available NL=not listed

3. HAZARDS IDENTIFICATION**PHYSICAL PROPERTIES:**

Appearance: Amber liquid

Odor: Odorless

EMERGENCY OVERVIEW: CAUTION. Harmful if absorbed through skin. Cause moderate eye irritation. Avoid contact with eyes, skin or clothing.

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.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

4. FIRST AID MEASURES

FIRST AID	
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.
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.
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 1-877-250-9291 for emergency medical treatment information.	
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

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.

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. Use only with adequate ventilation. Always wash thoroughly after handling.

PRECAUTIONS TO BE TAKEN IN STORAGE: Do not store below 0°F. If crystals do form, store above 70°F, shaking periodically until crystals are dissolved.

STORAGE TEMPERATURE (MIN/MAX): Store above 0°F (-18°C).

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: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Amber liquid

Odor: Odorless

pH: 3.63

FLASH POINT: 87°C (189°F)

SPECIFIC GRAVITY: 1.07g/cm³ (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

ACUTE TOXICITY/IRRITATION STUDIES: (The following data are for Trinexapac-ethyl Technical):

Acute Oral LD ₅₀ (Rat) :	> 5,500 mg/kg
Acute Dermal LD ₅₀ (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

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 (LC₅₀) to Aquatic Species

Rainbow Trout: 68 mg/L

Bluegill: > 130.1 mg/L

Daphnia magna: > 142.5 mg/L

Active Ingredient Acute Toxicity (LD₅₀) 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, 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: Dispose of product containers, waste containers, and residues according to label instructions and local, state, and federal health and environmental regulations.

14. TRANSPORT INFORMATION

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

SARA TITLE III CLASSIFICATION:

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

CA PROPOSITION 65: This product does not contain any substances known to the State of California to cause cancer or reproductive harm.

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

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

MSDS DATE 2-3-10. Supersedes versions dated 2-5-09 and 4-3-07. Changes made to sections 1, 4 and 16.

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.