

SAFETY DATA SHEET
QUALI-PRO® T-NEX®

1. IDENTIFICATION

Product name: **Quali-Pro® T-Nex®**
 Product type: Plant Growth Regulator
 Chemical name of active ingredient(s): Trinexapac-ethyl: 4-(cyclopropylhydroxymethylene)-3,5-dioxocyclohexanecarboxylic acid
 Manufacturer/Registrant: Control Solutions, Inc.
 5903 Genoa Red Bluff
 Pasadena, TX 77507
 Phone: 1-800-424-9300
 For fire, spill, and/or leak emergencies, contact Chemtrec:
 For medical emergencies and health and safety inquiries, contact SafetyCall: Phone: 1-866-897-8050
 Poison Control Center: Phone: 1-800-222-1222

2. COMPOSITION / INFORMATION ON INGREDIENTS

CLASSIFICATION IN ACCORDANCE WITH OSHA HCS 29 CFR 1910.1200

Acute Toxicity:

	Acute oral	Acute dermal	Acute inhalation	Eye irritation	Skin irritation	Skin Sensitization
Category	NC	NC	4	NC	NC	NC

NC: Not classified

SINGAL WORD: Warning

HAZARD STATEMENT:

- Harmful if inhaled

PICTOGRAM:



PRECAUTIONARY STATEMENTS:

- Avoid breathing vapors and spray. Use only in well-ventilated area. If inhaled, remove victim to fresh AIR and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

Contact Safety Call® International for emergency medical treatment at (866) 897-8050.

PHYSICAL CHEMICAL HAZARDS: Do not mix or allow coming into contact with oxidizing agents. Hazardous chemical reaction may occur.

STORAGE AND DISPOSAL: See Section 7 and 13.

OTHER HAZARDS: See Section 11 and 12.

3. HAZARDS IDENTIFICATION

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Trinexapac-ethyl	95266-40-3	12.0	NE	NE	NA	NA
Proprietary Blend contains:	NA	88	NA	NA	NA	NA
1-butoxy-ethanol	111-76-2		50 ppm (TWA skin)	20 ppm (TWA)	5 ppm (TWA skin)*	NTP: Group 3**

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

*NIOSH. ** NTP Group 3: Not classifiable as to its carcinogenicity to humans.

4. FIRST AID MEASURES

FIRST AID	
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 the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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.
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 center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this product, contact the National Pesticide Information center, 1-800-858-7378, Monday-Friday, 8:00 AM – 12:00 PM PST. You may also contact the National Poison Control Center, 1-800-222-1222, day or night, for emergency medical treatment information. FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.	
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: 94.4°C (202°F)

FLAMMABLE LIMITS: Not available

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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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

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: Clear yellow liquid
Odor: None
pH: 3.22±0.22 @25.1°C
FLASH POINT: 94.4°C (202°F)
DENSITY: 0.9923 g/ML (25.2°C)
VISCOSITY: 43.674 mm²/S@19.9°C;20.030 mm²/s @40.1°C
VAPOR PRESSURE: Not available
WATER SOLUBILITY: Not available
PARTITION COEFFICIENT: Not available

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 ₅₀ (Rat) :	> 3,129 mg/kg
Acute Dermal LD ₅₀ (Rat) :	> 5,000 mg/kg
Acute Inhalation LC50 (Rat):	> 2.12 mg/L (4 hrs.)
Eye Irritation:	Minimally irritating
Dermal Irritation:	Non-irritating
Dermal Sensitization:	Not a skin sensitizer

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

REPRODUCTIVE/DEVELOPMENTAL EFFECTS:

Trinexapac-Ethyl Technical: None observed.

CHRONIC/SUBCHRONIC EFFECTS:

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

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

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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:

Not regulated

INTERNATIONAL TRANSPORTATION:

IMO (vessel): Not regulated.

IATA (air): Not regulated

15. REGULATORY INFORMATION

FIFRA INFORMATION:

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 for safety data sheet, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION Harmful if swallowed. Avoid contact with eyes, skin or clothing.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.

Section 311/312: Acute health hazard (immediate)

Section 313: 2-butoxy-ethanol (CAS No. 111-76-2)

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.

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

STATE RIGHT-TO-KNOW: 2-butoxy-ethanol (CAS No. 111-76-2): NJ, PA, MA

16. OTHER INFORMATION

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

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The information herein is given in good faith, but no warranty, either express or implied, is made. Consult Control Solutions, Inc. for further information.