



# SAFETY DATA SHEET

## Quali-Pro® T-Nex®

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS is intended to provide important health and safety information for employers, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200). The product label provides information specifically for product use/application. Use, storage, and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage and disposal information is set forth on that label. It is a violation of federal law to use an EPA registered pesticide product in any manner inconsistent with its labeling.

### SECTION 1: IDENTIFICATION

**Product Name:** Quali-Pro® T-Nex®  
**EPA Registration No.:** 53883-353  
**Recommended Use:** Plant Growth Regulator; See product label for a complete list of uses and use sites.  
**Restrictions on Use:** See product label for any restrictions on the use of this product.  
**Chemical Family:** Not determined  
**Chemical Name of Active Ingredient(s):** Trinexapac-ethyl  
**Manufactured for:** Control Solutions, Inc.  
 5903 Genoa-Red Bluff  
 Pasadena, TX 77507

**FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300**  
**FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050**

### SECTION 2: HAZARD(S) IDENTIFICATION

#### EMERGENCY OVERVIEW:

#### OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

|                           |            |
|---------------------------|------------|
| Acute Inhalation Toxicity | Category 4 |
|---------------------------|------------|

**OSHA Signal Word:** WARNING



**Hazard Statement(s):** Harmful if inhaled

#### Precautionary Statement(s):

- Prevention:** Avoid breathing mist/vapors/spray.  
Use only outdoors or in a well-ventilated area.
- Response:** **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.  
Call a poison control center/doctor if you feel unwell.
- Storage:** No statements required. Please see Section 7 for additional information.
- Disposal:** No statements required. Please see Section 13 for additional information.

\*Please see Section 15 for an explanation of the difference between this SDS and the product label.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name    | CAS Number | Weight % |
|------------------|------------|----------|
| Trinexapac-ethyl | 95266-40-3 | 12.0     |
| 2-butoxyethanol  | 111-76-2   | *        |

\*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

| SECTION 4: FIRST AID MEASURES |   |
|-------------------------------|---|
| <b>IF IN EYES:</b>            | Hold eye open and rinse slowly and gently with water for 15 to 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.  |
| <b>IF ON SKIN:</b>            | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.  |
| <b>IF INHALED:</b>            | Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.   |
| <b>IF INGESTED:</b>           | 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. |

**Most important symptoms/effects, acute and delayed:** Mild and temporary eye irritation or skin irritation. Symptoms of overexposure are headaches, dizziness, numbness, nausea, lack of coordination or other central nervous system effects.

| SECTION 5: FIRE-FIGHTING MEASURES                      |   |
|--|---|
| <b>Suitable Extinguishing Media:</b>                   | Water spray, alcohol-resistant foam, dry chemical or carbon dioxide   |
| <b>Unsuitable Extinguishing Media:</b>                 | Water jet as it may spread fire.  |
| <b>Hazardous Combustion Products:</b>                  | Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides.   |
| <b>Special Protective Equipment &amp; Precautions:</b> | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| <b>Unusual Fire &amp; Explosion Hazards:</b>           | None known  |

| SECTION 6: ACCIDENTAL RELEASE MEASURES |  |
|--|--|
| <b>Personal Precautions:</b>           | See Section 8 for personal protection equipment.   |
| <b>Environmental Precautions:</b>      | Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.  |
| <b>Methods for Containment:</b>        | Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for re-use.   |
| <b>Methods for Clean-up:</b>           | Place recovered material in a separate container for re-use. After removal, flush contaminated area thoroughly with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container. |
| <b>Other Information:</b>              | None known   |

**SECTION 7: HANDLING AND STORAGE**

**Handling:** RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental contact with product from skin, clothing and out of eyes.

**Storage:** See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals. Do not store this product under wet conditions.

**Storage Temperature (Min/Max):** Store above 0°F (-18°C). If crystals do form, store above 70°F, shaking periodically until crystals are dissolved.

**Product Incompatibilities:** Strong oxidizing agents

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

**Exposure Guidelines:**

| COMPONENT       | OSHA PEL          | ACGIH TLV    | NIOSH REL        |
|-----------------|-------------------|--------------|------------------|
| 2-butoxyethanol | 50 ppm (TWA Skin) | 20 ppm (TWA) | 5 ppm (TWA Skin) |

**Engineering Controls:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

**THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS REQUIRED FOR PRODUCT APPLICATORS, END USERS, AND HANDLERS AND COMES FROM THE FIFRA APPROVED PESTICIDE LABEL:**

Applicators and other handlers must wear: Long-sleeved shirt and long pants; Chemical-resistant gloves (such as nitrile, butyl, neoprene, or barrier laminate) and Shoes plus socks

**THE PERSONAL PROTECTIVE EQUIPMENT BELOW IS INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS:**

**Respiratory Protection:** In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

**Eye Protection:** Chemical goggles or safety glasses and full-face shield.

**Protective Gloves:** Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

**Other Protective Clothing:** Long-sleeved shirt, long pants and shoes plus socks.

**General Safety Measures:** Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. 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.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                 |                     |   |  |
|---------------------------------|---------------------|---|--|
| <b>Appearance:</b>              | Clear yellow liquid | <b>Upper/Lower Flammability Limits:</b> | Not determined   |
| <b>Odor:</b>                    | Faint               | <b>Vapor Pressure:</b>                  | Not determined   |
| <b>Odor Threshold:</b>          | Not determined      | <b>Vapor Density:</b>                   | Not determined   |
| <b>pH (1% dispersion):</b>      | 3.0 – 4.0           | <b>Density @ 25.2°C:</b>                | 0.9923 g/mL  |
| <b>Melting /Freezing Point:</b> | Not determined      | <b>Solubility (water):</b>              | Not determined   |
| <b>Boiling Point/Range:</b>     | Not determined      | <b>Partition Coefficient:</b>           | Not determined   |
| <b>Flash Point:</b>             | 94.4°C (202°F)      | <b>Auto-ignition Temperature:</b>       | Not determined   |
| <b>Evaporation Rate:</b>        | Not determined      | <b>Decomposition Temperature:</b>       | Not determined   |
| <b>Flammability:</b>            | Not determined      | <b>Viscosity:</b>                       | 43.674<br>mm <sup>2</sup> /S@19.9°C;<br>20.030 mm <sup>2</sup> /S<br>@40.1°C |

\*As an end-use mixture, many of the listed physical and chemical properties are not determined as they primarily apply to pure chemical substances.

#### SECTION 10: STABILITY AND REACTIVITY

|  |   |
|--|---|
| <b>Reactivity:</b>                         | No hazardous chemical reactions known.                                      |
| <b>Chemical Stability:</b>                 | Stable under normal storage and handling conditions.                        |
| <b>Possibility of Hazardous Reactions:</b> | No potential for hazardous reactions known.                                 |
| <b>Conditions to Avoid:</b>                | Freezing temperatures   |
| <b>Incompatible Materials:</b>             | Strong oxidizing agents   |
| <b>Hazardous Decomposition Products:</b>   | Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides. |

#### SECTION 11: TOXICOLOGICAL INFORMATION

|                                     |  |
|-------------------------------------|--|
| <b>Likely Routes of Exposure:</b>   | Dermal, Eye, Inhalation, Oral  |
| <b>Symptoms of Exposure:</b>        | Mild and temporary eye irritation or skin irritation; Symptoms of overexposure are headaches, dizziness, numbness, nausea, lack of coordination or other central nervous system effects. |
| <b>Oral LD<sub>50</sub>:</b>        | 3,129 mg/kg (rat)  |
| <b>Dermal LD<sub>50</sub>:</b>      | >5,000 mg/kg (rat)   |
| <b>Inhalation LC<sub>50</sub>:</b>  | >2.12 mg/L (4-hr)(rat) Highest dose tested; no mortality at this concentration   |
| <b>Eye Irritation/Damage:</b>       | Mild irritation clearing in 48 hours (rabbit)  |
| <b>Skin Corrosion/Irritation:</b>   | Slightly irritating  |
| <b>Skin Sensitization:</b>          | Non-sensitizer (guinea pig)  |
| <b>Chronic/Subchronic Toxicity:</b> | Trinexapac-Ethyl Technical: Liver, kidney and brain (dogs) effects at high doses (>5,000 ppm).   |
| <b>Mutagenicity:</b>                | Trinexapac-Ethyl Technical: no effects observed  |
| <b>Reproductive Toxicity:</b>       | Trinexapac-Ethyl Technical: no effects observed  |
| <b>Neurotoxicity:</b>               | No data available  |

**Target Organs:** Trinexapac-Ethyl Technical: Liver, kidney and brain (dogs) effects at high doses (>5,000 ppm).  
**Aspiration Hazard:** Not anticipated to be an aspiration hazard based on physical characteristics.  
**Carcinogenicity:**

| Chemical Name        | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed |       |      |     |      |

**SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Hazards Statement from FIFRA Regulated Pesticide Label:**

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. Do not apply when weather conditions favor drift from treated areas.

**ECOTOXICITY DATA:**

The following information is for Trinexapac-ethyl technical material.

**Fish Toxicity:** Rainbow trout 96-hr LC<sub>50</sub> = 68 mg/L  
 Bluegill 96-hr LC<sub>50</sub> >130.1 mg/L  
**Aquatic Invertebrate Toxicity:** Daphnia magna 48-hr EC<sub>50</sub> > 142.5 mg/L  
**Aquatic Plant Toxicity:** No data available  
**Avian Toxicity:** Mallard Duck acute oral LD<sub>50</sub> >2,000 mg/kg  
 Bobwhite Quail acute oral LD<sub>50</sub> >2,250 mg/kg  
**Honeybee Toxicity:** No data available

**ENVIRONMENTAL EFFECTS:**

**Persistence and Degradability:** No data available  
**Bioaccumulation:** No data available  
**Mobility:** No data available  
**Other Adverse Effects:** No data available

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal:** Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.  
**Container Disposal:** Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.  
**RCRA Characteristics:** It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

**SECTION 14: TRANSPORTATION INFORMATION**

**DOT (Ground):** Not regulated  
**IMDG (Sea):** Not regulated

IATA  
(Air): Not regulated

**SECTION 15: REGULATORY INFORMATION**

**Labeling Requirements Under FIFRA:** 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 required for safety data sheets 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.

**Difference between SDS and Pesticide Label**

|                           | EPA LABEL            | OSHA SDS           |
|---------------------------|----------------------|--------------------|
| Signal Word               | CAUTION              | WARNING            |
| Acute Oral Toxicity       | Harmful if swallowed | Not classified     |
| Acute Inhalation Toxicity | Not classified       | Harmful if inhaled |

**TSCA Inventory:** This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

**SARA Title III Information:**

**Section 302 – Extremely hazardous substances:** None

**Section 311/312 – Hazard Categories:** Immediate (Acute)

**Section 313 –** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name   | CAS Number | Weight % |
|-----------------|------------|----------|
| 2-butoxyethanol | 111-76-2   | <20.0%   |

**CERCLA –** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed   |            |    |                              |

**CALIFORNIA PROPOSITION 65:**

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed   |            |                       |

**U.S. STATE RIGHT-TO-KNOW REGULATIONS:**

| Chemical Name   | New Jersey | Massachusetts | Pennsylvania |
|-----------------|------------|---------------|--------------|
| 2-butoxyethanol | X          | X             | X            |

**SECTION 16: OTHER INFORMATION**

|      |                  |                |               |                        |
|------|------------------|----------------|---------------|------------------------|
| NFPA | Health Hazards 1 | Flammability 1 | Instability 1 | Special Hazards – None |
|------|------------------|----------------|---------------|------------------------|

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