



SAFETY DATA SHEET

Quali-Pro T/I 2.5 G

SECTION 1: IDENTIFICATION

Product Name: Quali-Pro T/I 2.5 G
EPA Registration No.: 53883-435
Recommended Use: Herbicide; 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: N/A - Mixture
Chemical Name of Active Ingredient(s): Trifluralin
Isoxaben
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: Yellow-gray granules with mild organic odor.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

Acute Inhalation Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Eye Damage/Irritation	Category 2A
Toxic to Reproduction	Category 1B
Carcinogenicity	Category 2

Signal Word: DANGER



Hazard Statement(s): Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May damage fertility or the unborn child
Suspected of causing cancer

Precautionary Statement(s):

Prevention: Avoid breathing dust.
Use only outdoors or in a well-ventilated area.
Wash hands thoroughly after handling.
Wear protective gloves, protective clothing and eye protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

Response: **IF INHALED:** Remove person to fresh air and keep comfortable for breathing.
Call a poison center/doctor if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF EXPOSED OR CONCERNED: Get medical advice/attention.

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with Federal, state and local laws and regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight %
Trifluralin	1582-09-8	2.0%
Isoxaben	82558-50-7	0.5%
Proprietary Solvent 1	*	2.5 – 4.0%
Proprietary Solvent 2	*	2.0 – 4.0%

*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

IF IN EYES:	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.
IF ON SKIN:	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.
IF INHALED:	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.
IF INGESTED:	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: Eye and skin irritation including redness and itching.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media: Heavy water stream

Hazardous Combustion Products: Thermal decomposition may produce oxides of carbon and nitrogen.

Special Protective Equipment & Precautions: 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).

Unusual Fire & Explosion Hazards: Product is likely to smolder producing large amounts of smoke and carbon monoxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Avoid inhalation of dust. Avoid actions that cause dust to become airborne.

Methods for Clean-up: Uncontaminated product may be placed in a container for use according to label directions. Do not put spilled material back in the original container. Avoid actions that cause dust to become airborne during dry clean-up such as sweeping or using compressed air. Use HEPA vacuum or thoroughly wet with water to clean-up dust. Pick up wash liquid with additional absorbent and place in a disposable container.

Other Information: 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 splashes of the 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.

Storage Temperature (Min/Max): Not determined

Product Incompatibilities: None known

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
None listed			

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.

Respiratory Protection: In areas of poor ventilation or where exposure limits are exceeded, use a NIOSH approved respirator with cartridges/canisters approved for pesticides and dust.

Eye Protection: Chemical goggles or safety glasses.

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

Appearance:	Solid, granules (Yellow-gray)	Upper/Lower Flammability Limits:	Not determined
Odor:	Mild organic	Vapor Pressure:	Not applicable
Odor Threshold:	Not determined	Vapor Density:	Not applicable
pH (1% dispersion):	Not determined	Bulk Density:	0.90 g/cc (56 lbs/ft ³)
Melting /Freezing Point:	Not determined	Solubility:	Not determined
Boiling Point/Range:	Not determined	Partition Coefficient:	Not determined
Flash Point:	Not applicable	Auto-ignition Temperature:	Not determined
Evaporation Rate:	Not determined	Decomposition Temperature:	Not determined
Flammability:	Not determined	Viscosity:	Not applicable

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No reactivity hazards known.
Chemical Stability:	Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions:	No potential for hazardous reactions known.
Conditions to Avoid:	Excessive heat.
Incompatible Materials:	None known
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon and nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eye contact, Skin contact, Inhalation, Ingestion
Symptoms of Exposure:	Mild mechanical eye irritation.
Oral LD₅₀:	>2,500 mg/kg (rat)
Dermal LD₅₀:	>5,000 mg/kg (rabbit)
Inhalation LC₅₀:	>4.6 mg/L (4-hour)(rat)
Eye Irritation/Damage:	Moderately irritating
Skin Corrosion/Irritation:	Irritating
Skin Sensitization:	Not a skin sensitizer
Chronic/Subchronic Toxicity:	Proprietary Solvent #2: Repeated dose toxicity; Rat - male and female - Oral - NOAEL : 35 mg/kg
Mutagenicity:	No data available
Reproductive Toxicity:	Proprietary Solvent #2: Reproductive toxicity - Rat - male and female - Oral

Paternal Effects: Testes, epididymis, sperm duct. Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Endocrine: Effect on menstrual cycle.

Neurotoxicity: No data available
Target Organs: No data available
Aspiration Hazard: Not anticipated to be an aspiration hazard.
Carcinogenicity: Proprietary Solvent #1: Caused cancer in laboratory animals, but the relevance to humans is uncertain. Based on assessment of the components.

Chemical Name	ACGIH	IARC	NTP	OSHA
Trifluralin		Group 3		

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. 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 apply in a manner which will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not contaminate water when cleaning equipment or disposing of equipment washwaters rinsate.

ECOTOXICITY DATA:

Data presented below is on technical trifluralin.

Fish Toxicity:

Lepomis macrochirus: 96 hr static LC₅₀ = 0.0168 – 0.0199 mg/L

Pimephales promelas: 96 hr static LC₅₀ = 0.083 – 0.134 mg/L

Oncorhynchus mykiss: 96 hr static LC₅₀ = 0.0072 – 0.014 mg/L

Aquatic Invertebrate Toxicity:

Daphnia pulex: 48 hr static EC₅₀ = 0.16 – 0.35 mg/L

Daphnia magna: 48 hr static EC₅₀ = 0.32 – 1.0 mg/L

Aquatic Plant Toxicity:

No data available

Avian Toxicity:

No data available

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 Not regulated in packages less than 500 lbs. For packages of 500 lbs or greater:
(Ground): UN3077, Environmentally hazardous substance, solid, n.o.s. (Trifluralin), 9, PGIII, RQ
IMDG UN 3077, Environmentally hazardous substance, solid, n.o.s. (Trifluralin), 9, PG III, Marine
(Sea): pollutant
IATA
(Air): UN 3077, Environmentally hazardous substance, solid, n.o.s. (Trifluralin), 9, PG III

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 inhaled. Harmful if swallowed. Causes moderate eye irritation. Avoid breathing dust. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes or clothing.

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: Acute (Immediate); Chronic (Delayed)
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 %
Trifluralin	1582-09-8	1.47%

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
Trifluralin	1582-09-8	10 lbs	500 lbs.

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
Trifluralin	X	X	X

SECTION 16: OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 0	Instability 0	Special Hazards – None
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