

1. IDENTIFICATION

Product name: **Quali-Pro® T/I 2.5 G**
 Chemical name of active ingredient(s): **Trifluralin:** α,α,α -trifluoro-2,6-dinitro-*N,N*-dipropyl-*p*-toluidine
Isoxaben: N-[3-(1-ethyl-1-methylpropyl)-5-isoxazolyl]-2,6-dimethoxybenzamide
 Manufacturer: Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 919-256-9300
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Trifluralin	1582-09-8	2.0	NE	NE	NA	IARC: 3*
Isoxaben	82558-50-7	0.5	NE	NE	NA	NA

*IARC: Group 3 – The agent is unclassifiable as to carcinogenicity to humans.

NE=Not established

NA=Not applicable

3. HAZARDS IDENTIFICATIONS**PHYSICAL PROPERTIES:**

Appearance: Yellow-gray granule

Odor: Mild organic

EMERGENCY OVERVIEW: 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.

POTENTIAL HEALTH EFFECTS: This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYE: May cause moderate eye irritation with slight corneal injury.

SKIN: Prolonged contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Did not cause allergic skin reactions when tested in guinea pigs.

INGESTION: Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

4. FIRST AID MEASURES

FIRST AID	
IF INHALED:	<ul style="list-style-type: none"> • 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 SWALLOWED:	<ul style="list-style-type: none"> • 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.

IF IN EYES:	<ul style="list-style-type: none"> • 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 at 1-877-250-9291 for emergency medical treatment information.	

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Water fog, CO₂ or dry chemicals.

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: Will emit toxic vapors during combustion.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides and other toxic vapors may be formed if product is involved in fire.

FIRE-FIGHTING PROCEDURES: Wear full protective clothing and use positive-pressure, self-contained breathing apparatus. Dike and collect fire-extinguishing water to prevent environmental damage with excessive water runoff.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Clean up spills immediately. Contain and sweep up material of small spills and store for disposal. Dispose in accordance with Section 13: Disposal Considerations.

7. HANDLING AND STORAGE

Do not contaminate water, food or feed by storage or disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep out of reach of children. Harmful if swallowed or inhaled. Causes eye irritation. Avoid contact with eyes, skin and clothing. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in original container only. In case of leak or spill, contain material and dispose of as waste.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

FOR COMMERCIAL APPLICATION AND ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Chemical goggles.

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

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

RESPIRATOR REQUIREMENTS: If respiratory irritation is experienced, use a NIOSH-approved air-purifying respirator.

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

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

MATERIAL SAFETY DATA SHEET

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- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use adequate ventilation to minimize airborne concentrations of this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Yellow-gray granule

ODOR: Mild organic

FLASH POINT: Not applicable

pH: N/A

DENSITY: 0.90 g/cc (56 lb/ft³)

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under normal use and storage.

CONDITIONS TO AVOID: Do not use or store near heat or open flame.

MATERIALS TO AVOID: None known.

HAZARDOUS POLYMERIZATION: Not known to occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrogen oxides and other toxic vapors may be formed if product is involved in fire.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD₅₀ (Rat): > 2,500 mg/kg

Acute Dermal LD₅₀ (Rabbit): > 5,000 mg/kg

Acute Inhalation LC₅₀ (Rat): > 4.6 mg/L (m); 0.5 – 4.6 mg/L (F) (4-hrs.)

Eye Irritation (Rabbit): Moderately irritating

Dermal Irritation (Rabbit): Skin irritating

Dermal Sensitization: Did not cause allergic skin reactions when tested in guinea pigs.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: 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.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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:

<500 lbs: Not regulated

≥500 lbs: UN 3077, Environmentally hazardous substance, solid, n.o.s. (trifluralin), 9, PGIII, RQ

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN 3077, Environmentally hazardous substance, solid, n.o.s. (trifluralin), 9, PGIII, Marine Pollutant

IATA (air): UN 3077, Environmentally hazardous substance, solid, n.o.s. (trifluralin), 9, PGIII, Marine Pollutant

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable
 Section 311/312: Acute health hazard (immediate)
 Chronic health hazard (delayed)
 Section 313: Trifluralin CAS #: 1582-09-8 (2.0%)

CA PROPOSITION 65: No applicable.

CERCLA RQ: Trifluralin 10 lbs. (500 lbs. of product)

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	HMIS	
HEALTH:	2	2	0 MINIMAL
FLAMMABILITY:	1	0	1 SLIGHT
REACTIVITY:	0	0	2 MODERATE
			3 HIGH
			4 SEVERE

MSDS DATE: 8-16-11. Supersedes version dated 11-29-10. Changes made to sections 2, 9 and 15.

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