

MATERIAL SAFETY DATA SHEET

Quali-Pro® Quinclorac 75 DF

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1. IDENTIFICATION

Product name: **Quali-Pro® Quinclorac 75 DF**
 Chemical name of active ingredient(s): Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid
 Manufacturer: FarmSaver.com, LLC.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 1-800-979-8994
 For fire, spill, and/or leak emergencies, contact CHEMTREC: Phone: 1-800-424-9300
 Outside US: 1-703-527-3887
 For medical emergencies and health and safety inquiries, contact Prozar: Phone: 1-800-308-5391

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Quinclorac	84087-01-4	75	NE	NE	NA	Not listed
Inerts		25				
Including kaolin clay that may contain more than 0.1% crystalline silica				2 mg/m ³		

NA=Not available.
 NE=Not established.

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES

Appearance: Light tan granules
 Odor: No appreciable odor

EMERGENCY OVERVIEW: CAUTION Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, clothing, or eyes. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PRIMARY ROUTES OF EXPOSURE: Skin and eye, ingestion and inhalation.

MEDICAL CONDITIONS AGGRAVATED: Existing skin sensitivities.

4.FIRST AID MEASURES

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call 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:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
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.
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 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. You may also contact PROSAR (800) 308-5391 for emergency medical treatment information.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASH POINT: Will not flash

FLAMMABLE LIMITS (LFL-UFL): N/A

EXTINGUISHING MEDIA: Use foam, dry chemical, carbon dioxide, or water spray when fighting fires involving this material.

FIRE AND EXPLOSION HAZARDS: Organic solid dusts at sufficient concentrations can form explosive mixtures with air. Can burn in fire, releasing irritating and toxic gasses due to thermal decomposition or combustion.

FIRE-FIGHTING PROCEDURES: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water run off. Full fire fighting turn-out gear (Bunker gear). Self-contained breathing apparatus with full facepiece.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, oxides of nitrogen and carbon.

6. ACCIDENTAL RELEASE MEASURES

Clean up spills immediately, observing precautions in Section 8 of this document.

SMALL SPILL: Vacuum or sweep up material and place in a container for reuse or disposal.

LARGE SPILL: Vacuum or sweep up material and place in a container for reuse or disposal.

After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

7. HANDLING AND STORAGE

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

HANDLING: Use only in a well-ventilated area. Minimize dust generation and accumulation.

PESTICIDE STORAGE: Store in a cool, dry and well ventilated area. **DO NOT** store under wet conditions.

STORAGE TEMPERATURE (MIN/MAX): Normal temperatures.

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.

EYE PROTECTION: Safety glasses or goggles

SKIN PROTECTION: Long-sleeve shirt, long pants, shoes plus socks.

HAND PROTECTION: Chemical-resistant gloves

RESPIRATOR REQUIREMENTS: When handling in enclosed area where exposure limits may be exceeded, a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

ADDITIONAL PROTECTIVE MEASURES:

Follow manufacturer's instructions for cleaning/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.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Refer to product label.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Light tan granules

ODOR: No appreciable odor

pH: 4.2

BULK DENSITY: 0.575 g/ml

VAPOR PRESSURE: $< 1 \times 10^{-7}$ mmHg@20°C

WATER SOLUBILITY(technical): 65 ppm

10. STABILITY AND REACTIVITY

STABILITY: Stable, however may decompose if heated.

CONDITIONS TO AVOID: Avoid exposure to high moisture conditions for prolonged periods.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, oxides of nitrogen and carbon.

HAZARDOUS POLYMERIZATION: Product will not undergo polymerization.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

Acute Oral LD50 (Rat): >2,000 mg/kg

Acute Dermal LD50(Rat): >2,000 mg/kg

Acute Inhalation LC50: >6.0 mg/L

Eye Irritation: Moderately irritating

Dermal Irritation: Slightly irritating

Dermal Sensitization: Sensitization possible after repeated exposure

MUTAGENIC DATA: No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

ADDITIONAL DATA: Not known to exhibit reproductive or teratogenic (birth defect) effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Keep out of lakes, ponds and streams. **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 by cleaning of equipment or disposal of rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

FISH TOXICITY(Technical):

96 hour LC₅₀, Rainbow trout: > 100 mg/L

96 hour LC₅₀, Bluegill: > 100 mg/L

AVIAN TOXICITY(Technical):

ORAL LD₅₀, Bobwhite quail: 2000 mg/kg

Oral LD₅₀, Mallard duck: Unknown

BEE TOXICITY: Non-toxic

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may 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:

Not Regulated.

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)

Chronic health hazard (delayed)

Section 313: Not applicable

CA PROPOSITION 65: Not applicable

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

NFPA HAZARD RATINGS

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

MSDS DATE: 2-10-09. Supersedes versions dated 10-14-08 and 10-5-07. Changes made to Section 2.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult FarmSaver.com, LLC. for further information.