

1. IDENTIFICATION

Product name: **Quali-Pro® 2-D**
 Chemical name of active ingredient(s): Triclopyr: (3,5,6-Trichloro-2-pyridinyl)oxyacetic acid, triethylamine salt
 Clopyralid: 3,6-dichloro-2-pyridinecarboxylic acid, triethylamine salt
 Manufacturer/Registrant: 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

CHEMICAL NAME	CAS #	%	OSHA/PEL	ACGIH/TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Triclopyr triethylamine salt	57213-69-1	33.0	NE	NE	NA	NA
Clopyralid	57754-85-5	12.1	NE	NE	NA	NA

NA=Not applicable
 NE=Not established

3. HAZARDS IDENTIFICATION

PHYSICAL PROPERTIES:

Appearance: Clear liquid
Odor: Faint alkaline like

EMERGENCY OVERVIEW: DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield or safety glasses). Avoid breathing spray mist.

ROUTES OF ENTRY: Eyes, skin and ingestion.

HEALTH HAZARDS: Severe eye irritant. May cause corneal damage.

HAZARDOUS DECOMPOSITION PRODUCTS: May decompose to hydrogen chloride, oxides of nitrogen and phosgene when burning.

PHYSICAL HAZARDS: May release toxic fumes if burned.

4. FIRST AID

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IF IN EYES:	<ul style="list-style-type: none"> 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 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 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 ON SKIN OR CLOTHING:

- 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact Prozar at 1-877-250-9291 for emergency medical treatment information.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

FLASHPOINT: >130°F (54°C) (Closed cup method)

FLAMMABLE LIMITS (% in air): Not available

FIRE FIGHTING PROCEDURES: Evacuate area and fight fire upwind from a safe distance to avoid possible hazardous fumes 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 runoff.

UNUSUAL FIRE, EXPOSURE AND REACTIVITY HAZARDS: May decompose in fire due to thermal decomposition, releasing irritating and toxic gases.

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

HAZARDOUS COMBUSTION PRODUCTS: Hydrogen chloride, oxides of nitrogen, chlorinated pyridine, phosgene.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Wear appropriate personal protective equipment. Dispose in accordance with Section 13: Disposal Considerations.

SMALL SPILL: Absorb small spills using sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for 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.

PRECAUTIONS TO BE TAKEN IN HANDLING: Use only in well-ventilated area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in original container with tightly closed lid. Store in a well ventilated, dry place away from heat or other sources of ignition.

STORAGE TEMPERATURE (MIN/MAX):

Minimum: 40° F (6° C)

Maximum: 105° F (40° C)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATION AND ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Protective eyewear (goggles, face shield or safety glasses).

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, polyvinyl chloride (PVC) or viton.

RESPIRATOR REQUIREMENTS: When handling where exposure limits may be exceeded, use a respirator approved for pesticides.

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/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: Use adequate ventilation to minimize airborne concentrations of this material. Local mechanical exhaust ventilation may be required.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid

ODOR: Faint alkaline like

pH: 7.0 – 7.5

DENSITY: 1.138 g/ml@ 20°C (9.5 lb/gal)

FLASHPOINT: >130°F (54°C) (Closed cup method)

10. STABILITY AND REACTIVITY

GENERAL: Stable, however may decompose if heated.

CONDITIONS TO AVOID: Avoid temperatures above 105°F (40°C) and below 40°F (6°C).

INCOMPATIBLE MATERIALS: Strong acids and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: May decompose to hydrogen chloride, oxides of nitrogen and phosgene when burning.

HAZARDOUS POLYMERIZATION: Material is not known to polymerize.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

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

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

Acute Inhalation LC50 (Rat): Not available

Eye Irritation (Rabbit): Severe

Dermal Irritation (Rabbit): Slight

Dermal Sensitization: Potential skin sensitizer after repeated exposure to concentrate

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: 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 contaminate water when cleaning equipment or disposing of equipment washwaters.

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

Clopyralid is a chemical which can travel (seep or leach) through soil and under certain conditions contaminate groundwater which may be used for irrigation or drinking purposes. Users are advised not to apply clopyralid where soils have a rapid to very rapid permeability throughout the profile (such as loamy sand to sand) and the

water table of an underlying aquifer is shallow, or to soils containing sinkholes over limestone bedrock, severely fractured surfaces, and substrates which would allow direct introduction into an aquifer. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

13. DISPOSAL CONSIDERATIONS

END USERS MUST DISPOSE OF ANY PRODUCT AS PER THE LABEL RECOMMENDATIONS.

PRODUCT DISPOSAL: Pesticide wastes are acutely hazardous. 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:

Non-bulk packaging: Not Regulated.

Bulk packaging (>119 gallons): NA1993, Combustible liquid, N.O.S. (triethylamine, ethanol), PG III

INTERNATIONAL TRANSPORTATION:

IMO (vessel): UN1993, Flammable liquid, N.O.S. (triethylamine, ethanol), 3, PG III

IATA (air): UN1993, Flammable liquid, N.O.S. (triethylamine, ethanol), 3, PG III

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302/304: Not applicable

Section 311/312: Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

Fire Hazard

Section 313 chemical(s): Triclopyr (CAS #: 57213-69-1) 33.0%

CA PROPOSITION 65: Not applicable.

CERCLA REPORTABLE QUANTITY (RQ): Triethylamine RQ=5,000 lbs

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: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

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

MSDS DATE: 12-23-10.

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