

MATERIAL SAFETY DATA SHEET

**Quali-Pro® 3-D**

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**1. IDENTIFICATION**

Product name: **Quali-Pro® 3-D**  
 Chemical name of active ingredient(s): Dimethylamine salt of 2,4-D: Dimethylamine Salt of 2,4-Dichloro-phenoxyacetic acid  
 Dimethylamine salt of Mecoprop-P: Dimethylamine Salt of (+)-R-2-(2-methyl-4-chlorophenoxy) proionic acid  
 Dimethylamine salt of Dicamba: dimethylamine salt of dimethylamine Salt of (3,6-dichloro-*o*-aristic acid)  
 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)
Dimethylamine salt of 2,4-D	2008-39-1	30.56	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	NA	NA
Dimethylamine salt of Mecoprop-P	16484-77-8	8.17	NE	NE	NA	NA
Dimethylamine salt of Dicamba	2300-66-5	2.77	NE	NE	NA	NA

NA=not applicable; NE=Not established

**3. HAZARDS IDENTIFICATION**

**PHYSICAL PROPERTIES:**

**Appearance:** Clear light amber liquid

**Odor:** Typical phenoxy herbicide odor

**EMERGENCY OVERVIEW:** DANGER. Corrosive. Causes irreversible eye damage. Harmful if swallowed. Do not get in eyes, on skin, or on clothing.

**ROUTES OF ENTRY:** Eyes, skin and ingestion.

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

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, other chlorine containing compounds, oxides of nitrogen, and other unknown hazardous materials may be formed in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**4. FIRST AID**

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>

<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>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.</p> <p><b>Note to Physician:</b> If in eyes, specialized ophthalmologic attention may be necessary. If swallowed, probable mucosal damage may contraindicate the use of gastric lavage. There is no specific antidote; treat symptomatically.</p>	

**5. FIRE FIGHTING MEASURES**

**FLASHPOINT:** Do not flash

**FLAMMABLE LIMITS (% in air):** None established

**FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area of intense smoke.

**UNUSUAL FIRE, EXPOSURE AND REACTIVITY HAZARDS:** If water is used to fight fire and/or cool containers, contain runoff, using dikes to prevent contamination of water supplies.

**SUITABLE EXTINGUISHING MEDIA:** Use medium appropriate to surrounding fire. Dry chemical, carbon dioxide, foam, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Ammonia, oxides of nitrogen, chlorine-containing compounds and other unknown hazardous materials may be formed in a fire situation.

**6. ACCIDENTAL RELEASE MEASURES**

**ACTION TO TAKE FOR SPILLS/LEAKS:** Contain spill and absorb with suitable absorbent, sweep up material and transfer to containers for possible land application according to label use or for proper disposal. Wash spill area with water containing strong detergent, absorb and sweep up as above. Check local, state and federal regulations for proper disposal. Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

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

**PRECAUTIONS TO BE TAKEN IN HANDLING:** 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.

**PRECAUTIONS TO BE TAKEN IN STORAGE:** Keep from freezing. Store in a safe manner. Store in original container only. Keep container tightly closed when not in use.

**STORAGE TEMPERATURE (MIN/MAX):** Keep from freezing.

**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 (chemical goggles or face shield or safety glasses).

**SKIN PROTECTION:** Long-sleeved shirt and long pants, hats rubber boots plus socks.

**HAND PROTECTION:** Wear rubber or chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC) or viton.

**RESPIRATOR REQUIREMENTS:** Not normally required, if vapors or dusts exceed acceptable levels, wear a MSHA/NOISH approved pesticide respirator.

**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:** Refer to product label.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE:** Clear liquid amber

**ODOR:** Typical phenoxy herbicide odor

**pH:** 8.5-9.0 (neat)

**DENSITY:** 1.13 g/ml

**BULK DENSITY:** 9.43 lbs/gal

**BOILING POINT:** 212°F (100°C) (Closed cup method)

**VAPOR PRESSURE:** 0.021 mm Hg

**PERCENT VOLATILE (by volume):** <50% (water)

**EVAPORATION RATE (Butyl acetate=1):** Lower than Butyl Acetate

**SOLUBILITY:** Miscible

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**10. STABILITY AND REACTIVITY**

**GENERAL:** Stable, however may decompose if heated.

**INCOMPATIBLE MATERIALS:** Strong oxidizers and acids.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen chloride, other chlorine containing compounds, oxides of nitrogen, and other unknown hazardous materials may be formed in a fire situation. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**HAZARDOUS POLYMERIZATION:** Material is not known to polymerize.

**11. TOXICOLOGICAL INFORMATION**

**ACUTE TOXICITY/IRRITATION STUDIES:**

Acute Oral LD50 (Rat): > 375 mg/kg (2,4-D Acid)

Acute Dermal LD50 (Rabbit): > 1,400 mg/kg (2,4-D Acid)

Acute Inhalation LC50 (Rat): > 5.28 mg/L (24 h)

Eye Irritation (Rabbit): Corrosive

Dermal Irritation (Rabbit): Non-irritating

Dermal Sensitization: Not a skin sensitizer

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic invertebrates and may adversely affect nontarget plants. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment washwaters or rinsate.

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Application around a cistern or well may result in contamination of drinking water or 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 and may contaminate groundwater. 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 (< 35 gallons):** Not regulated

**Bulk (> or = 35 gallons):** UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (2,4-D), 9, PGIII, RQ

**INTERNATIONAL TRANSPORTATION:**

**IMO (vessel):** Not regulated

**IATA (air):** Not regulated

**15. REGULATORY INFORMATION**

**SARA TITLE III CLASSIFICATION:**

**Section 302/304:** Not applicable

**Section 311/312:** Immediate (Acute) Health Hazard

**Section 313 chemical(s):** 2,4-D Acid (CAS 94-75-7) 25.38% acid equivalent  
Dimethylamine Dicamba (CAS 2300-66-5) 2.30% acid equivalent

**CA PROPOSITION 65:** Not applicable.

**CERCLA REPORTABLE QUANTITY (RQ):** 2,4-Dichlorophenoxyacetic acid (100 lbs.) = 35 gallons 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. (RCRA Waste Code: U240; D016)

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

**16. OTHER INFORMATION**

<b>HAZARD RATINGS:</b>	<b>NFPA</b>	<b>HMIS</b>	<b>0</b>	<b>LEAST</b>
<b>HEALTH:</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>SLIGHT</b>
<b>FLAMMABILITY:</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>MODERATE</b>
<b>REACTIVITY:</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>HIGH</b>
		<b>H</b>	<b>4</b>	<b>SEVERE</b>
			<b>H</b>	<b>PPE</b>

**MSDS DATE:** 11-11-10.

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