

1. IDENTIFICATION

Product name: **Quali-Pro® Prodiamine 65 MC**
 Chemical name of active ingredient(s): Prodiamine: 2,4-dinitro-N3,N3-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine
 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

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA (Carcinogen)
Prodiamine	29091-21-2	65	Not established	Not established	-	Not applicable

3. HAZARDS IDENTIFICATIONS

PHYSICAL PROPERTIES:

Appearance: Yellow granules
 Odor: Odorless

EMERGENCY OVERVIEW: CAUTION. Harmful absorbed through the skin or inhaled. Avoid breathing dust. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

SYMPTOMS OF ACUTE EXPOSURE: Causes mild eye and skin irritation. Allergic skin reactions are possible.

MEDICAL CONDITIONS LIKELY TO BE AGGRAVATED BY EXPOSURE: None known.

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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
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 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.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For medical emergencies involving this product, call Prozar at 1-877-250-9291.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not applicable

METHOD USED: Not applicable

FLAMMABLE LIMITS:

LFL: Not applicable

UFL: Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

FLAMMABILITY: Not applicable

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical

UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS: This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (>680°F [360°C]) can serve as ignition sources for this material.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

FIRE-FIGHTING PROCEDURES: Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage system or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is clean up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: 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.

Bulk bags (FIBC) used to contain this material should be either Type B or Type C. If Type C bags are used, make sure they are electrically grounded before powder is discharged from the bag.

Handle this material only in electrically conductive equipment. Electrically ground and bond this equipment as well as any worker who could contact a dust cloud formed of this material. Eliminate the presence of mechanical sparks and other ignition sources where dust clouds of this material could form.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in original container away from feed or foodstuffs and separated from other pesticides. Store material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store or process above 320°F (160°C).

STORAGE TEMPERATURE (MIN/MAX):

Minimum: Normal ambient temperatures.

Maximum: 320° F (160° C)

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.

INGESTION PROTECTION: Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

EYE PROTECTION: Where contact is likely, use chemical splash goggles.

RESPIRATORY PROTECTION: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

SKIN PROTECTION: Where contact is likely, wear chemical-resistant gloves (such as nitrile or butyl), coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear.

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.
- After handling this product, immediately wash the outside of gloves before removing them. Immediately 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: Yellow granules

ODOR: Odorless

FLASH POINT: Not applicable

pH: 9.36

MELTING POINT: Not available

BOILING POINT: Not applicable

DENSITY: 0.45 g/mL

SOLUBILITY IN H₂O:

Prodiamine: 0.013 ppm @ 77°F (25°C)

VAPOR PRESSURE: Prodiamine: $<5.6 \times 10^{-6}$ mmHg @ 68°F (20°C)

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

CONDITIONS TO AVOID: Thermal, mechanical and electrical ignition sources.

MATERIALS TO AVOID: Oxidizing agents.

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Can decompose at high temperatures forming toxic gases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD₅₀ (Rat): >5,000 mg/kg

Acute Dermal LD₅₀ (Rat): >2,000 mg/kg

Acute Inhalation LC₅₀ (Rat): 1.81 mg/L air (4-hours)

Eye Irritation (Rabbit): Mildly Irritating

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Dermal Irritation (Rabbit): Practically Non-Irritation (Rabbit)
Dermal Sensitization (Guinea Pig): Sensitizing (Guinea Pig)

REPRODUCTIVE/DEVELOPMENT EFFECTS:

Prodiamine: Fetal toxicity at high dose levels (rats); development and maternal toxicity observed at 1 g/kg/day.

CHRONIC/SUBCHRONIC TOXICITY STUDIES:

Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high does levels (rats); decreased body weight gains.

CARCINOGENICITY:

Prodiamine: Benign thyroid tumors (rat). None observed (mouse).

OTHER TOXICITY INFORMATION: None

TOXICITY OF OTHER COMPONENTS:

Dispersing Agent: Exposure can result in eye, skin and respiratory tract irritation.

Kaolin Clay: Long-term exposure to high concentrations of this dust may produce x-ray evidence of dust in the lungs. Continued long-term exposure may affect respiratory function in some individuals.

TARGET ORGANS:

Active Ingredients:

Prodiamine: Liver, thyroid

Inert Ingredients:

Dispersing Agent: Eye, skin, respiratory tract

Kaolin Clay: Lung

12. ECOLOGICAL INFORMATION

Based on active ingredient - Prodiamine.

SUMMARY OF EFFECTS: Highly toxic to fish and invertebrates. Practically non-toxic to birds and bees.

ECO-ACUTE TOXICITY:

Rainbow Trout 96-hour LC50: 0.83 mg/L
Bluegill Sunfish 96-hour LC50: 0.55 mg/L
Daphnia magna 48-hour LC50: 0.66 mg/L
Bobwhite 8-day Dietary LC50: >10,000 mg/L
Mallard 8-day Dietary LC50: >10,000 mg/L
Bees LC50/EC50: >100 ug/bee

ENVIRONMENTAL FATE: Does not bioaccumulate. Persistent in soil. Stable in water. Immobile in soil. Sinks in water (after 24 hours).

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL: Check governmental regulations and local authorities for approved disposal of this material. Dispose in accordance with applicable laws and regulations.

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:

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IMO (vessel): UN 3077, Environmentally Hazardous Substances, Solid, N.O.S (prodiamine), 9, PG III,
Marine pollutant

IATA (air): UN 3077, Environmentally Hazardous Substances, Solid, N.O.S (prodiamine), 9, PG III,
Marine pollutant

15. REGULATORY INFORMATION

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable.
Section 311/312: Acute health hazard (immediate)
Chronic health hazard (delayed)
Reactivity hazard
Section 313: Not applicable.

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, 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:	2	2	1	SLIGHT
REACTIVITY:	1	1	2	MODERATE
			3	HIGH
			4	SEVERE

MSDS DATE: 9-27-10.

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.