

**1. IDENTIFICATION**

Product name: **Quali-Pro® Prodiamine 65 WDG**  
 Chemical name of active ingredient(s): Prodiamine: 2,4-dinitro-N3,N3-dipropyl-6-(trifluoromethyl)-1,3-benzenediamine  
 Distributor: 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 Prosar: Phone: 1-800-308-5391

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NO.	%	OSHA PEL	ACIGH 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 if inhaled or absorbed through the skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Can decompose at high temperatures forming toxic gases.

**UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS**

This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (greater than 680° F [360° C] can serve as ignition sources for this material. This material can energetically decompose at approximately 383° F (195° C).

**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	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 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 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 15-20 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 by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further 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> </ul>

- Do not induce vomiting unless told to do so by a poison control center or doctor.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-308-5391 for emergency medical treatment information.

## 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, CO<sub>2</sub>, dry chemical

### UNUSUAL FIRE, EXPLOSION, AND REACTIVITY HAZARDS

This product is considered electrically conductive. Static electricity, mechanical sparks, open flames and certain hot surfaces (greater than 680° F [360° C] can serve as ignition sources for this material. This material can energetically decompose at approximately 383° F (195° C).

### 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:** Do not store or process above 320° F (160° C). Store material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area.

### 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 H<sub>2</sub>O:**

Prodiamine: 0.013 ppm @ 77° F (25° C)

**VAPOR PRESSURE:**

Prodiamine: <math>5.6 \times 10^{-6}</math> 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 (FINISHED PRODUCT)**

Acute Oral LD50 (Rat): >5,000 mg/kg

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Acute Dermal LD50 (Rat): >2,000 mg/kg  
Acute Inhalation LC50 (Rat):1.81 mg/L air (4-hours)  
Eye Irritation (Rabbit): Mildly Irritating  
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

**ECO-CHRONIC TOXICITY:**

Not available

**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:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations.

**14. TRANSPORT INFORMATION**

**DOT CLASSIFICATION:**

Not regulated

**B/L Freight Classification:** Item: 50320 [Compounds, tree or weed killing (herbicides), NOI, other than poison] Class 60

**INTERNATIONAL TRANSPORTATION**

**IMO (vessel):** Environmentally Hazardous Substances, Solid, N.O.S (prodiamine 65%), 9, UN 3077, PG III, Marine pollutant

**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)  
 Reactivity hazard  
 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**

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

**MSDS Date:** 10-31-07

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