



SAFETY DATA SHEET

Quali-Pro Prodiamine 4L

SECTION 1: IDENTIFICATION

Product Name: Quali-Pro Prodiamine 4L
EPA Registration No.: 66222-230
Recommended Use: Herbicide; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Family: Dinitroaniline
Chemical Name of Active Ingredient(s): Prodiamine
Manufactured for: Makhteshim Agan of North America, Inc.
3120 Highwoods Boulevard, Suite 100
Raleigh, NC 27604

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300

FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: Bright yellow liquid with a very faint amine odor. Causes serious eye irritation.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

| | |
|---------------------------|------------|
| Eye Damage/Irritation | Category 1 |
| Acute Inhalation Toxicity | Category 4 |

Signal Word: DANGER



Hazard Statement(s): Causes serious eye damage.
Harmful if inhaled.

Precautionary Statement(s):

- Prevention:** Wear eye protection/face protection.
Avoid breathing mist/ vapors/spray.
Use only outdoors or in a well-ventilated area.
- Response:** **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.
- Storage:** No statement required. See section 7 for storage information.
- Disposal:** No statement required. See section 13 for disposal information.

The following percentage of the mixture consists of components with unknown hazards regarding the acute toxicity:

- 0.2% Acute oral toxicity
- 1.63% Acute dermal toxicity
- 8.63% Acute Inhalation toxicity
- 0.2% Eye irritation
- 0.2% Skin irritation

0.2% Skin Sensitization

SECTION 3: COMPOSTION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Number | Weight % |
|---------------------------------|------------|------------|
| Prodiamine | 29091-21-2 | 40.8% |
| Sodium N-methyl-N-oleoyltaurate | 137-20-2 | 2.0 – 3.0% |

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

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| IF IN EYES: | 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 ON SKIN: | 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. |
| IF INHALED: | 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 INGESTED: | 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. |

Most important symptoms/effects, acute and delayed: Severe eye irritation with potential for irreversible damage.

SECTION 5: FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media: | Foam, dry chemical, carbon dioxide or water spray |
| Unsuitable Extinguishing Media: | Water jet |
| Hazardous Combustion Products: | Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides. |
| Special Protective Equipment & Precautions: | Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear). |
| Unusual Fire & Explosion Hazards: | None known |

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. 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.

Methods for Clean-up: Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Storage: See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max): Not determined but avoid extreme temperatures.

Product Incompatibilities: Avoid contact with strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

Exposure Guidelines:

| COMPONENT | OSHA PEL | ACGIH TLV | NIOSH REL |
|----------------------|----------|-----------|-----------|
| No components listed | | | |

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Respiratory Protection: In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.

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| Eye Protection: | Chemical goggles or safety glasses and full-face shield. |
| Protective Gloves: | Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton. |
| Other Protective Clothing: | Long-sleeved shirt, long pants and chemical resistant footwear plus socks. |
| General Safety Measures: | Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. 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 and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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|---------------------------------|----------------------|---|-----------------|
| Appearance: | Bright yellow liquid | Upper/Lower Flammability Limits: | Not determined |
| Odor: | Very faint amine | Vapor Pressure: | Not determined |
| Odor Threshold: | Not determined | Vapor Density: | Not determined |
| pH (1% dispersion): | 7.46 | Relative Density (@24°C): | 1.165 (typical) |
| Melting /Freezing Point: | Not determined | Solubility in Water: | Not determined |
| Boiling Point/Range: | Not determined | Partition Coefficient: | Not determined |
| Flash Point: | Not applicable | Auto-ignition Temperature: | Not determined |
| Evaporation Rate: | Not determined | Decomposition Temperature: | Not determined |
| Flammability: | Not applicable | Viscosity: | Not determined |

SECTION 10: STABILITY AND REACTIVITY

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| Reactivity: | No hazardous chemical reactions known. |
| Chemical Stability: | Stable under normal storage and handling conditions. |
| Possibility of Hazardous Reactions: | No potential for hazardous reactions known. |
| Conditions to Avoid: | Extreme temperatures |
| Incompatible Materials: | Strong oxidizers |
| Hazardous Decomposition Products: | Thermal decomposition may produce toxic carbon, nitrogen and sulfur oxides. |

SECTION 11: TOXICOLOGICAL INFORMATION

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| Likely Routes of Exposure: | Eye contact, Skin contact, Inhalation, Ingestion |
| Symptoms of Exposure: | Serious eye irritation with potential for irreversible damage. |
| Oral LD₅₀: | 4,999 mg/kg (Estimated based upon component data) |
| Dermal LD₅₀: | 3,626 mg/kg (Estimated based upon component data) |
| Inhalation LC₅₀: | 2.79 mg/L (Estimated based upon component data) |
| Eye Irritation/Damage: | Based upon component data, severe eye irritation is anticipated. |
| Skin Corrosion/Irritation: | Not anticipated to be a skin irritant based upon component data. |
| Skin Sensitization: | Non-sensitizer, based upon component data. |

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|-------------------------------------|-------------------|
| Chronic/Subchronic Toxicity: | No data available |
| Mutagenicity: | No data available |
| Reproductive Toxicity: | No data available |
| Neurotoxicity: | No data available |

Target Organs: No data available
Aspiration Hazard: Not anticipated to be an aspiration hazard.
Carcinogenicity: No components are known or potential carcinogens.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|----------------------|-------|------|-----|------|
| No components listed | | | | |

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish. 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 from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwater.

ECOTOXICITY DATA:

Fish Toxicity: No data available
Aquatic Invertebrate Toxicity: No data available
Aquatic Plant Toxicity: No data available
Avian Toxicity: No data available
Honeybee Toxicity: No data available

ENVIRONMENTAL EFFECTS:

Persistence and Degradability: No data available
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: **Refer to the pesticide label for full information on disposal.** Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used 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 in proper disposal methods.

Container Disposal: **Refer to the pesticide label for full information on disposal.** When possible, triple rinse the container and offer for recycling if available.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORTATION INFORMATION

DOT (Ground): Not regulated
IMDG (Sea): UN3082, Environmentally hazardous substance, liquid, n.o.s. (Prodiamine), 9, PGIII
IATA (Air): UN3082, Environmentally hazardous substance, liquid, n.o.s. (Prodiamine), 9, PGIII

SECTION 15: REGULATORY INFORMATION

Labeling Requirements Under FIFRA: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

May be harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor. 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.

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:

- Section 302 – Extremely hazardous substances:** None
- Section 311/312 – Hazard Categories:** Acute (Immediate)
- Section 313 –** This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical Name | CAS Number | Weight % | SARA 313 – Threshold Values (lbs) |
|---------------|------------|----------|-----------------------------------|
| None listed | | | |

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

| Chemical Name | CAS Number | RQ | Quantity of Finished Product |
|---------------|------------|----|------------------------------|
| None listed | | | |

CALIFORNIA PROPOSITION 65:

| Chemical Name | CAS Number | Prop 65 Category(ies) |
|---------------|------------|-----------------------|
| None listed | | |

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| None listed | | | |

SECTION 16: OTHER INFORMATION

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|-------------|-------------------------|-----------------------|----------------------|-------------------------------|
| NFPA | Health Hazards 1 | Flammability 1 | Instability 0 | Special Hazards – None |
|-------------|-------------------------|-----------------------|----------------------|-------------------------------|

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