

# UniQ

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** UniQ  
**Pesticide Classification:** Plant Growth Regulator  
**UN No.:** Not regulated.

#### Supplier

Enviro Bio-Chem (Pty) Ltd  
Co. Reg. No.: 2013/194774/07  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

#### Registration Holder

Erintrade CC t/a RT Chemicals CC  
Co. Reg. No.: CK2001/036403/23  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Telephone:** +27 87 231 7261  
**Fax:** 086 541 7948  
**Website:** [www.envirobiochem.co.za](http://www.envirobiochem.co.za)

**24 Hr Emergency Number:** Bateleur: +27 83 123 3911

#### **In case of Poisoning:**

Poison Information Centre: +27 82 446 8946  
Tygerberg Hospital: (+27 21) 931 6129  
Poison Emergency Enquiries: (+27 21) 689 5227

**Common Name:** Uniconazole 50 g/l SC  
**Chemical Name:** (E)-(R,S)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1H-1,2,4-triazole-1-yl)pent-en-3-ol  
**Empirical Formula:** C<sub>15</sub>H<sub>18</sub>ClN<sub>3</sub>O  
**CAS No.:** 38657-22-1  
**RSA Reg. No.:** L7282 Act/Wet No. 36 of/van 1947

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Uniconazole	50 g/l

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### 3. HAZARD IDENTIFICATION

**Hazard Class:** WHO Class II -Moderately hazardous.

**Main Hazard:** Causes eye irritation.

**Flammability:** Non-flammable

**Chemical Hazard:** No specific chemical hazard to mention.

**Biological Hazard:** No specific biological hazard to mention.

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### 4. FIRST AID MEASURES AND PRECAUTIONS

If poisoning is suspected, do not wait for symptoms to develop. Contact a physician, the nearest hospital or the nearest Poison Control Centre.

**Symptoms of Human Poisoning:** No signs and symptoms of poisoning are known or expected in humans.

#### First Aid Measures:

**Skin Contact:** Remove contaminated clothing and wash before re-use. Wash affected skin areas with fresh running water and soap. Treat symptomatically. If irritation persists, seek medical advice.

**Eye Contact:** Hold eyes open and flush immediately with clean running water for at least 15 minutes. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eyes.

**Ingestion:** If swallowed, drink 1-2 glasses of water or milk and induce vomiting by touching the back of the throat with a finger. Contact a physician or Poison Control Center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest emergency treatment center.

**Inhalation:** Move victim from contaminated area to fresh air. Apply artificial respiration if necessary. Avoid inhalation of vapor or spray mist. Seek medical attention.

**Advice to Physician:** Treat symptomatically.

**Antidote:** There is no specific antidote for poisoning with this product.

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### 5. FIRE FIGHTING MEASURES

**Flammability:** Non-flammable

**Extinguishing Agents:** CO<sub>2</sub>, dry chemical or foam water fog.

**Firefighting:** Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire-fighting. Do not enter any enclosed area without full protective equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal according to Section 13 of this document. Decontaminate personal protective equipment and firefighting equipment before re-use.

**Special Hazards:** Normal combustion may form carbon dioxide, water vapor, oxides of nitrogen and/or produce toxic compounds of chlorine. Incomplete combustion can produce carbon monoxide.

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### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal Precautions:** Wear protective clothing. Avoid breathing vapours or spray drift. Avoid contact with skin and eyes.

**Environmental Precautions:** Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not allow product to enter drainage systems, surface or ground water. Inform the competent authority if the product enters watercourses or contaminate soil.

**Spills:** Contain the spill to prevent it from spreading and contaminating soil, sewage and drainage systems or any body of water. Clean up spills immediately, observing the precautions outlined in Section 8. Cover the entire spill with absorbing material and place the waste into a compatible disposal container. Scrub the area with a hard water detergent. Pick up wash liquid once more with additional absorbent and place it into a compatible disposal container. Once all material is cleaned up the containers must be sealed and disposed of according to Section 13 of this document.

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## 7. HANDLING AND STORAGE REQUIREMENTS

**Handling:** Avoid contact with skin, eyes and clothing. Do not leave spray solution in spray tanks for long periods. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking, or using the toilet. Remove clothing immediately if the product gets inside, then wash skin thoroughly using non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present or to intertidal areas below the mean high-water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

**Storage:** Store at temperature not exceeding 40 °C. Store in original sealed containers, in a well-ventilated and dry storehouse. Keep away from direct sunlight, food, seed, animals, children and uniformed persons.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

**Acceptable Daily Intake (ADI):** No data available.

**Engineering Controls:** Use outdoors in a well-ventilated area. Comply with occupational safety, environmental, fire and other applicable regulations. Wear suitable personal protective equipment.

### Personal Protective Equipment:

**Clothing:** Long-sleeved shirt, long pants, shoes plus socks, protective waterproof (impermeable) gloves. Employee must wear appropriate protective clothing and equipment to prevent prolonged skin contact with this product.

**Gloves:** Protective waterproof (impermeable) rubber or plastic gloves are recommended.

**Eye Protection:** Wear eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted UniQ is likely to occur, splash goggles should be worn. Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.

**Respiratory:** Avoid inhaling fumes or spray drift. An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

**Other Protection:** Do not eat, drink or smoke while handling this product. Prevent contamination of food, feeds, drinking water and eating utensils. After using this product wash hands and face before eating. Take extreme care to avoid drift. Wash accurately (preferably a shower) after a work shift. Wash hands during with soap and water breaks and at the end of work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White to grey liquid.

**Odor:** None

**pH:** 6-8

**Suspensibility:** ≥98%

**Flammability:** Non-flammable

**Vapor Pressure:**  $4.7 \times 10^{-5}$  mmHg at 20 °C.

**Density:** 1.04 g/ml at 25 °C.

**Solubility in Water:** Miscible with water.

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## 10. STABILITY AND REACTIVITY

**Stability:** This product is stable under normal warehouse conditions.

**Conditions to Avoid:** Do not store at temperatures below 0 °C.

**Incompatible Materials:** Avoid oxidizing agents, acids and alkalis.

**Decomposition Products:** No data available.

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## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub> (rat):** >2 000 mg/kg body weight.

**Acute Dermal LD<sub>50</sub> (rabbit):** >2 000 mg/kg body weight.

**Acute Inhalation LC<sub>50</sub> (rat, 4 hr):** >2.75 mg/l air.

**Skin and Eye Irritation (rabbit):** Causes slight eye irritation. Not a skin irritant.

**Skin Sensitization (guinea pig):** Not a skin sensitizer.

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## 12. ECOLOGICAL INFORMATION

**Aquatic Toxicity Fish LC<sub>50</sub> (96 hr):** 14.8 mg/l (rainbow trout); 7.64 mg/l (carp). Slightly to moderately toxic to fish.

**Aquatic Toxicity Daphnia EC<sub>50</sub> (48 hr):** No data available.

**Aquatic Toxicity Algae EC<sub>50</sub> (5 days):** No data available.

**Avian Toxicity LD<sub>50</sub> (9 days):** >2 315 mg/kg (mallard duck); 1 461 mg/kg (bobwhite quail). Non-toxic to birds.

**Bee Toxicity LD<sub>50</sub>:** >20 µ/bee. Non-toxic to bees.

**Biodegradability:** The product is stable to hydrolysis and the principal degradation pathway appears to be by photolysis in solution. Microbial breakdown in aerobic soils in the dark is slow.

**Bio-accumulation:** No data available.

**Mobility:** The product has a low to medium mobility in the soils tested.

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## 13. DISPOSAL CONSIDERATION

**Pesticide Disposal:** Do not contaminate crops, grazing, rivers or dams with chemical or used containers. Waste resulting from the use of this product that cannot be re-used or reprocessed must be disposed of as hazardous waste via a licensed disposal contractor to an approved landfill. Comply with any local legislation applying to waste disposal.

**Package Product Wastes:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Rinse empty container three times with a volume of water equal to at least one tenth of that of the container. Add the rinsings to the spray tank before perforating and flattening the container. Dispose of via a licensed disposal contractor to an approved landfill or preferably in a pesticide incinerator.

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## 14. TRANSPORT INFORMATION

**UN No.:** Not regulated.

**Class:** Not regulated.

**Packaging Group:** Not regulated.

**Shipping Name:** Not regulated.

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## 15. REGULATORY INFORMATION

**Risk Phrases:** None

**Safety Phrases:** None

**National Legislation:** This product is registered under Act 36 of 1947 of the Republic of South Africa. It is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions.

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## 16. OTHER INFORMATION

**Note:** Read and understand all the information on the product label before using the product.

**Disclaimer:** The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.

All information is given in good faith but without guarantee in respect of accuracy, and no responsibility is accepted for errors and omissions or the consequence thereof.

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