

# MidGit

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** MidGit  
**Pesticide Classification:** Plant Growth Regulator  
**UN No.:** 3082

**Supplier**

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

**Registration Holder**

RT Chemicals CC  
Co. Reg. No.: CK87/21925/23  
44 Kerk Street, Lichtenburg  
North West, South Africa 2740

**Telephone:** +27 87 231 7261  
**Fax:** 086 541 7948  
**Website:** 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:** Paclobutrazol 250 g/l SC  
**Chemical Name:** (2R,3R)-1-(4-chlorophenyl)-4,4-dimethyl-2-(1,2,4-triazol-1-yl)pentan-3-ol  
**Empirical Formula:** C<sub>15</sub>H<sub>20</sub>ClN<sub>3</sub>O  
**CAS No.:** 76738-62-0  
**RSA Reg. No.:** L6819 Act/Wet No. 36 of/van 1947

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Paclobutrazol	250 g/l

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### 3. HAZARD IDENTIFICATION

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

**Main Hazard:** Irritating to eyes. Risk of serious damage to eyes.

**Flammability:** Non-flammable

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

**Biological Hazard:** This material is toxic to fish and wildlife. Toxic to aquatic organisms.

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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 clean running water and soap. Treat symptomatically. Seek medical attention if symptoms persist.

**Eye Contact:** Hold eyes open and flush immediately with clear, 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:** Seek medical advice immediately. Rinse mouth thoroughly. Induce vomiting immediately as directed by medical doctor. Do not give anything by mouth to an unconscious person.

**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 and supportively as and when required.

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

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### 5. FIRE FIGHTING MEASURES

**Flammability:** Non-flammable

**Extinguishing Agents:** Use dry chemical, foam or CO<sub>2</sub> extinguishing media.

**Firefighting:** Wear full protective clothing and self-contained breathing apparatus. Evacuate non-essential 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 the runoff. Disposed of contaminated extinguishing agents according to Section 13 of this document.

**Special Hazards:** Avoid inhalation of hazardous vapours. Keep material out of sewers and water sources.

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### 6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

**Personal Precautions:** Wear protective clothing. Avoid breathing vapours or spray drift. If necessary, wear a self-contained breathing apparatus.

**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 must not exceed 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):** Data not 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. Clothing soaked with MidGit solution should be promptly removed and laundered before re-use.

**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 MidGit 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. Respiratory protection is not required for normal use and handling. During periods of abnormal exposure to heavy spray or mist, use a NIOSH approved respirator. 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 with soap and water during breaks and at the end of work.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Clear colourless liquid.

**Odor:** Perceptible odor.

**pH:** 7.92

**Flash Point:** >100°C

**Flammability:** Non-flammable

**Explosive Properties:** Non-explosive

**Density:** 1.02 g/ml

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

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## 10. STABILITY AND REACTIVITY

**Stability:** The product is stable when stored under normal storage conditions at normal temperatures.

**Conditions to Avoid:** Stable under standard conditions.

**Incompatible Materials:** Oxidizing agents.

**Decomposition Products:** Can decompose at high temperatures forming toxic gases.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the formulation toxicity.

**Acute Oral LD<sub>50</sub> (rat):** >5 346 mg/kg (calculated).

**Acute Dermal LD<sub>50</sub> (rat):** >8 000 mg/kg (calculated).

**Acute Inhalation LC<sub>50</sub> (rat, 4 hr):** >12.52 mg/l air (calculated).

**Skin and Eye Irritation (rabbit):** Causes mild skin and eye irritation.

**Skin Sensitization (guinea pig):** May cause an allergic reaction to skin in individuals already sensitised to the chemical.

**Chronic Dietary Study:** No data available.

**Carcinogenicity:** Animal studies did not detect any carcinogenic effects.

**Mutagenicity:** No data available.

**Reproductive Hazard:** Causes birth defects only at doses toxic to the mother.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

**Aquatic Toxicity Fish LC<sub>50</sub> (96 hr):** 27.8 mg/l (rainbow trout); 23.6 mg/l (bluegill sunfish).

**Aquatic Toxicity Daphnia EC<sub>50</sub> (48 hr):** >29 mg/l.

**Aquatic Toxicity Algae EC<sub>50</sub> (96 hr):** >39.7 mg/l.

**Avian Toxicity LD<sub>50</sub>:** >7 913 mg/kg (mallard duck).

**Bee Toxicity LD<sub>50</sub> (oral):** >2 µg/bee.

**Biodegradability:** The general DT<sub>50</sub> in soil is 0.5 to 1 year.

**Bio-accumulation:** The product shows a tendency to bio-accumulate.

**Mobility:** No leaching potential.

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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.:** 3082

**Class:** 9

**Packaging Group:** III

**Proper Shipping Name:** Environmentally Hazardous, Liquid, N.O.S. (contains Paclobutrazole)

## 15. REGULATORY INFORMATION

**Risk Phrases:** R22- Harmful if swallowed.

**Safety Phrases:** S1/2- Keep locked up and out of the reach of children.

**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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