

BRONIC 250 SC

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Bronic 250 SC
Pesticide Classification: Fungicide
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

Enviro Africom (Pty) Ltd.
Co. Reg. No.: 2013/194774/07
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: Azoxystrobin 250 g/l SC
Chemical Name: methyl (2E)-2-[2-[6-(2-cyanophenoxy) pyrimidin-4-yloxy]phenyl]-3-methoxyacrylate (IUPAC)
Empirical Formula: C₂₂H₁₇N₃O₅
CAS No.: 131860-33-8
RSA Reg. No.: L10797 Act/Wet No. 36 of/van 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

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

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Toxic if inhaled.

Flammability: Not flammable

Chemical Hazard: Fire may produce combustion products, which are toxic and irritating.

Biological Hazard: Very toxic to aquatic life.

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: May be irritating to eyes and respiratory tract. Exposure to high vapor levels may cause headaches, dizziness, numbness, nausea, in-coordination or other central nervous system effects.

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. 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 eye.

Ingestion: Wash out mouth with water. Do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Keep patient at rest and seek medical attention.

Inhalation: Move victim from contaminated area to fresh air. 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.

5. FIRE FIGHTING MEASURES

Flammability: Not flammable

Extinguishing Agents: Use dry chemical, foam or CO₂ extinguishing media.

Firefighting: 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.

Special Hazards: Fire may produce combustion products, which are toxic and irritating.

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: Prevent spilled material from entering drains or watercourses. Contain spill and absorb with earth, sand, clay, or other absorbent material.

Spills: Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

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.

Handling/Storage: Store at temperature not exceeding 30 °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. Do not leave spray solution in spray tanks for long periods. Use with adequate ventilation.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits: 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. Clothing soaked with Captain 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 Captain 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. During periods of abnormal exposure to heavy spray or mist, use a NIOSH approved mist 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 work shift. Wash hands during breaks and at the end of the work with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white to light yellow liquid.

Odor: Slight odour.

pH: 5 – 8

Flash Point: N/A

Flammability: Not flammable

Explosive Properties: Not an explosion hazard.

Density: 1.01 to 1.04 g/ml

Solubility in Water: Soluble in water.

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Flames, heat and ignition sources.

Incompatible Materials: None known. Avoid strong acids, strong bases and strong oxidizing agents.

Decomposition Products: None known. Store and use as directed.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on active ingredient toxicity.

Acute Oral LD₅₀ (rat): >5000 mg/kg

Acute Dermal LD₅₀ (rat): >2000 mg/kg

Acute Inhalation LC₅₀ (rat, 4 hr): >2000 mg/m³

Skin and Eye Irritation (rabbit): Slight eye irritation.

Sensitization (guinea pig): Not a skin sensitizer.

Chronic Dietary NOEL (24 month): Not observed.

Carcinogenicity: Not carcinogenic.

Mutagenicity: None known.

Reproductive Hazards: It is unlikely that the compound would produce any reproductive effects in humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 0.47 mg/l (rainbow trout); 1.1 mg/l (bluegill sunfish). Toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): 0.28 mg/l (daphnia magna).

Aquatic Toxicity Algae EC₅₀ (5 days): 0.12 mg/l (*selenastrum capricornutum*)

Avian Toxicity LD₅₀ (8 days): >1 590 mg/kg. Practically non-toxic to birds.

Bee Toxicity LD₅₀: >200 g/bee (contact); >200 mg/bee (oral).

Biodegradability: DT₅₀ in soil is 133 to 343 days, depending on the soil type. DT₅₀ for photolysis is 4 days in natural sunlight.

Bio-accumulation: Low bioaccumulation potential.

Mobility: Low mobility in soil.

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 should be disposed of in a landfill approved for pesticide disposal in accordance with applicable local procedures. 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 in approved landfill or preferably in a pesticide incinerator.

14. TRANSPORT INFORMATION

UN No.: 3082

Class: 9

Packaging Group: III

Proper Shipping Name: Environmentally Hazardous Substance; Liquid, N.O.S. (contains Azoxystrobin)

15. REGULATORY INFORMATION

Risk Phrases: R20/22- Harmful by inhalation and if swallowed.

R36/37/38- Irritating to eyes, respiratory system and skin.

R51- Toxic to aquatic organisms.

Safety Phrases: S2- Keep out of reach children.

S13- Keep away from food, drink and animal feeding stuffs.

S16- Keep away from sources of ignition – No smoking.

S23- Do not breathe vapour/spray.

S24/25- Avoid contact with skin and eyes.

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

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.

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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