

IPRODIONE 255

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: IPRODIONE 255
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

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

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: Iprodione 255 g/l SC
Chemical Name: 3-(3,5-dichlorophenyl)-N-(1-methylethyl)-2,4-dioxo-1-imidaizolidine-carboxamide
Empirical Formula: C₁₃H₁₃C₁₂N₃O₃
CAS No.: 36734-19-7
RSA Reg. No.: L7340 Act/Wet No. 36 of/van 1947
Namibia Re. No.: N-AR 1455

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Iprodione	≥ 255 g/l
Inert Ingredients	≤ 745 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazards: Moderately irritating to eyes.

Flammability: Non-flammable

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: Moderately toxic to aquatic organisms.

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.

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 eyes.

Ingestion: Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person. Seek medical attention.

Inhalation: Move victim from contaminated area to fresh air. Avoid inhalation of vapor or spray mist. Seek medical attention. If breathing is difficult give oxygen.

Advice to Physician: Treat symptomatically. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Extinguish fires with CO₂, dry powder or foam.

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: No hazards to specifically mention.

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: Keep all bystanders away. Wear goggles, a half face-piece respirator with combined dust and vapor cartridge, full length clothing and PVC gloves. Reposition any leaking containers so as to minimize further leakage. Dam and absorb spill with an absorbent material (e.g. sand or soil). Shovel the absorbed spill into appropriate containers and dispose of product waste according to Section 13 of this document.

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 IPRDIONE 255 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 IPRDIONE 255 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 liquid.

Odor: No data available.

pH: 4 - 6

Flammability: Non-flammable

Explosive Properties: Not an explosion hazard.

Density: 1.1 to 1.2 g/ml

Solubility in Water: Dispersible in water.

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Avoid contamination with reactive substances.

Incompatible Materials: Avoid contact with acidic, alkali or oxidizing agents.

Decomposition Products: Hydrogen chloride, carbon dioxide, carbon monoxide, oxides of nitrogen, cyanides and other chlorine compounds may form.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on technical difenoconazole toxicity.

Acute Oral LD₅₀ (rat): 3 500 mg/kg

Acute Dermal LD₅₀ (rat): >2 000 mg/kg

Acute Inhalation LC₅₀ (rat, 4 hr): ≥ 2.88 mg/l air.

Skin and Eye Irritation (rabbit): Moderately irritating to eyes and not irritating to skin.

Sensitization (guinea pig): Not a skin sensitizer.

Chronic Dietary Study: No information available.

Carcinogenicity: A two year feeding experiment with rats showed no increases in tumour formation or tumour precursors at dietary doses of about 2.5 mg/kg/day.

Mutagenicity: Iprodione was not mutagenic in the Ames assay.

Reproductive Hazard: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 4.1 mg/l (rainbow trout). Moderately toxic to fish.

Aquatic Toxicity Daphnia LC₅₀ (48 hr): 0.25 mg/l (daphnia magna).

Aquatic Toxicity Algae EC₅₀ (5 days): No information available.

Avian Toxicity LD₅₀: >10 400 mg/kg (mallard duck). Practically non-toxic to birds.

Bee Toxicity LD₅₀: Non-toxic to bees.

Biodegradability: The half-life of Iprodione in soil ranges from less than 7 days to greater than 60 days. A representative half-life in most soils is estimated to be 14 days.

Bio-accumulation: Iprodione is rapidly metabolized in soil, with the formation of CO₂. Iprodione is slightly soluble and moderately to well absorbed by most soils.

Mobility: Indication is that Iprodione has a low potential to contaminate groundwater (K_{oc} = 373 to 1551).

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not contaminate crops, grazing, rivers or dams with chemical or used container. 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 Iprodione)

15. REGULATORY INFORMATION

Risk Phrases: R22- Harmful if swallowed.

R40- Limited evidence of a carcinogenic effect.

R51- Toxic to aquatic organisms.

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

S24/25- Avoid contact with skin and eyes.

S60- This material and its container must be disposed of as hazardous waste

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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