

ProXiX

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: ProXiX
Pesticide Classification: Insecticide
UN No.: 2903

Supplier

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

Registration Holder

Erintrade t/a RT Chemicals
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: Pyriproxyfen 100g/l EC
Chemical Name: 4-phenoxyphenyl (RS)-2-(2-pyridyloxy) propyl ether
Empirical Formula: C₂₀H₁₉NO₃
CAS No.: 95737-68-1
RSA Reg. No.: L7668 Act 36 of 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Pyriproxyfen	± 100 g/ l
Inert Ingredients	± 900 g/ l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazard: This product is a severe irritant.

Flammability: Flammable

Chemical Hazard: During a fire this product may release smoke and hazardous decomposition products.

Biological Hazard: No specific biological hazard to mention.

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 specific symptoms are associated with this product. The product is an insect juvenile hormone analogue and therefore mammalian toxicity is low.

First Aid Measures:

Skin Contact: Wash skin immediately with soap and plenty of water. Seek medical advice if irritation persists. Launder contaminated clothing before re-use.

Eye Contact: Immediately flush eyes with gently flowing cold water for 10 to 20 minutes, holding the eyelids apart. If eye symptoms (redness, irritation or pain) persist refer patient to ophthalmologist for examination of eyes.

Ingestion: Seek medical advice immediately.

Inhalation: Remove person to fresh air. Keep at rest. Seek medical advice if exposure has been more than trivial.

Advice to Physician: The main hazards of this product are irritation of the eyes and skin.

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

5. FIRE FIGHTING MEASURES

Flammability: Flammable

Extinguishing Agents: Use foam, dry chemical or water spray. Do not use a water jet.

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. Dispose of runoff water according to Section 13 of this document.

Special Hazards: During a fire this product may release smoke and hazardous decomposition products.

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 another absorbent material.

Spills: Keep all bystanders away. Wear goggles, 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 drums. Dispose of the absorbed material will depend upon the extent of the spill. Contain in a secure location until disposal method is established. Decontaminate the spill area with detergent and water and rinse with the smallest volume of water practicable. Dispose of product waste according to Section 13 of this document.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: 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 in original sealed containers, in a well-ventilated and dry storehouse. Keep away from direct sunlight, food, seed, animals, children and uniformed persons.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): No data available.

Engineering Controls: Control process conditions to avoid contact. Use local exhaust ventilation. 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 product solution should be promptly removed and laundered before re-use.

Gloves: Avoid contact with the skin. When preparing spray wear elbow-length PVC gloves.

Eye Protection: Wear eye protection. During mixing or pouring operations or other activities in which eye contact with undiluted product 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: Do not inhale spray mist. Use respirator if needed.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Slightly yellow transparent liquid.

Relative Density: 1.23 (25 °C)

Flash Point: 23 °C

pH: 5 - 8

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Avoid ignition sources.

Incompatible Materials: Avoid oxidising agents.

Decomposition Products: Fire may produce harmful combustion product.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): > 5 000 mg/kg.

Acute Dermal LD₅₀ (rat): > 2 000 mg/kg.

Acute Inhalation LC₅₀ (rat, 4 hr): >1 300 mg/ℓ.

Skin Irritation (rabbit): Irritating. May cause defatting of the skin.

Eye Irritation (rabbit): Will irritate eyes.

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

Chronic Effects: The toxicity profile of the product indicates that the long-term use of this product should not result in adverse health effects.

Carcinogenicity: Pyriproxyfen was not carcinogenic in a study in mice or in rats. It does not pose a carcinogenic risk to humans.

Mutagenicity: In an adequate range of tests for mutagenicity and cytogenicity it was concluded that pyriproxyfen is not genotoxic.

Reproductive Hazard: No reproductive toxicity was observed in the two-generation rat study.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): >0.325 mg/l (rainbow trout).

Aquatic Toxicity Daphnia EC₅₀ (48 hr): 0.4 mg/l.

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

Avian Toxicity LD₅₀: >2 000 mg/kg (mallard duck).

Bee Toxicity LC₅₀ (contact): >100 µg/bee.

Biodegradability: Pyriproxyfen degrades rapidly via biological catalysis, having a half-life of 6 to 9 days and serving as a carbon source for soil organisms.

Bio-accumulation: No data available.

Mobility: No data available.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: Dispose of waste product as hazardous waste via a licensed disposal contractor to an approved landfill. Do not discharge into drains or sewers. 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: Rinse containers before disposal and rinsings to the spray tank. Dispose of the containers in a local authority landfill. If no landfill is available, bury the containers below 50 cm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

UN No.: 2903

Class: 6.1

Packaging Group: III

Proper Shipping Name: Pesticides; Liquid; Toxic; Flammable (contains Pyriproxyfen)

15. REGULATORY INFORMATION

Risk Phrases: R22- Harmful if swallowed.

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

R41- Risk of serious damage to eyes.

R51- Toxic to aquatic organisms.

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.

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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