

MiTADOR

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: MiTADOR
Pesticide Classification: Insecticide
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
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: Fenbutatin oxide 550g/l SC
Chemical Name: bis[tris(2-methyl-2-phenylpropyl)tin]oxide
Empirical Formula: C₆₀H₇₈OSn₂
CAS No.: 13356-08-6
RSA Reg. No.: L6953 Act 36 of 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Fenbutatin oxide	550 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: Harmful when ingested and slightly toxic when inhaled.

Flammability: Non-combustible. However, following evaporation of aqueous component residual material can burn if ignited.

Chemical Hazard: Emits toxic and irritant vapours when exposed to extreme conditions.

Biological Hazard: May cause long-term adverse effects in the aquatic environment.

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: Large amounts ingested may cause nausea, vomiting, diarrhea, convulsions, incoordination, fatigue, hypothermia and respiratory paralysis. Inhalation may cause mild inflammation and irritation of the respiratory tract. May cause sore throat, coughing, sneezing, shortness of breath, dizziness and dullness. Prevent long-term exposure, even in small quantities.

First Aid Measures:

Skin Contact: Remove contaminated clothing and wash before re-use. Wash affected skin areas with fresh running water and soap for 15 minutes. Treat symptomatically. Seek medical attention if symptoms persist.

Eye Contact: Rinse eyes immediately with clean water for at least 15-20 minutes and obtain medical attention.

Ingestion: If not breathing, give artificial respiration preferably mouth-to-mouth. If conscious, give 1-2 glasses water. Do not induce vomiting. Obtain medical attention.

Inhalation: Move victim from contaminated area to fresh air. Avoid inhalation of vapor or spray mist. Seek medical attention.

Advice to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. Large amount of blood transfusion is forbidden.

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

5. FIRE FIGHTING MEASURES

Flammability: Non-combustible. However, following evaporation of aqueous component residual material can burn if ignited.

Extinguishing Agents: Use foam, carbon dioxide, dry powder, sand, earth or water spray.

Firefighting: Wear positive pressure self-containing breathing apparatus. Remove container from fire area if safe to do so. Contain fire control water for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Keep material out of sewers and water sources. Avoid inhalation of hazardous vapors. Keep upwind.

Firefighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

Special Hazards: If involved in a fire, sulphur dioxide and phosphorus pentoxide may be emitted.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Do not inhale fumes. Ventilate area of spill or leak. 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: Contact the manufacturer in case of a spill. Contain liquid far ahead of the spill. Contain spillage and contaminated water for subsequent disposal. Do not flush spilled material into drains. Keep spectators away and upwind.

Carefully sweep up absorbent material while avoiding the formation of a dust cloud. Place the waste in suitable containers and seal for disposal according to Section 13 of this document. The area can be washed with water to remove the last traces of material but keep the waste out of watercourses or sewers. Inform authorities immediately if contamination occurs.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with eyes and skin. Avoid inhalation of fumes. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Operators should change and wash clothing daily. Remove clothing immediately if it gets contaminated with product. Then wash skin thoroughly using non-abrasive soap and put on clean clothing. Do not apply directly to areas where surface water is present. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original container in isolated, dry, cool and well-ventilated area. Store away from incompatible substances. Keep under lock and key out of reach of unauthorized persons, children and animals. Not to be stored next to foodstuffs and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): 0.03 mg/kg body weight.

Engineering Control Measures: It is essential to provide adequate ventilation. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

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: 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 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: An approved full-face respirator suitable for protection from mists of pesticides is required. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Suspension concentrate liquid.

Colour: White

Odour: None

Flammability: Non-flammable

Explosive Properties: Non-explosive

Storage Stability: It is stable in common conditions for two years.

10. STABILITY AND REACTIVITY

Stability: Stable for up to 2 years under normal warehouse and field conditions.

Conditions to Avoid: Do not store at temperatures below 12 °C.

Incompatible Materials: No data available.

Decomposition Products: Emits toxic and irritant vapours when exposed to extreme conditions.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): 3 000 mg/kg. Harmful when ingested.

Acute Dermal LD₅₀ (rat): >1 000 mg/kg.

Acute Inhalation LC₅₀ (rat, 4 hr): 0.46 mg/kg. Slightly toxic when inhaled.

Skin and Eye Irritation (rabbit): Slightly irritating to skin and severely irritating to eyes.

Skin Sensitization (guinea pig): Skin sensitization reaction may occur in some individuals.

Chronic Effects: Results from 2 years' animal studies suggest no any chronic effects.

Carcinogenicity: Animal studies did not detect any carcinogenic effects. No human information available.

Mutagenicity: Animal studies did not detect any mutagenic effects. No human information available.

Teratogenicity: Animal studies did not detect any teratogenic effects. No human information available.

Reproductive Hazard: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity is based on the active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (48 hr): 0.27 mg/l (rainbow trout).

Aquatic Toxicity Daphnia LC₅₀ (24 hr): 0.05 – 0.08 mg/l.

Aquatic Toxicity Algae LC₅₀ (72 hr): >0.005 mg/l (selenastrum capricornutum).

Avian Toxicity LD₅₀ (9 days): 5 056 mg/kg diet (bobwhite quail).

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

Biodegradability: No data available.

Bio-accumulation: No data available.

Mobility: In tests in commercial use, there was minimal movement of fenbutatin oxide or its metabolites out of the top 30 cm of soil.

13. DISPOSAL CONSIDERATION

Pesticide Disposal: 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 or in accordance with applicable local regulations. Hydrolysis under alkaline conditions is a suitable method to dispose of small quantities of the produce. After hydrolysis, dilute and dispose of in a landfill. Comply with any local legislation applying to waste disposal.

Package Product Wastes: Rinse empty containers three times with sufficient water and add the rinsings to the contents of the spray tank. Destroy empty containers by perforation and flattening, then dispose of them by sanitary landfill or by incineration. Pesticide containers must never be used for any other purpose.

14. TRANSPORT INFORMATION

UN No.: 3082

Class: 9

Packaging Group: III

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

15. REGULATORY INFORMATION

Risk Phrases:

- R21-** Harmful in contact with skin.
- R28-** Very toxic if swallowed.
- R36/38-** Irritating to eyes and skin.
- R41-** Risk of serious damage to eyes.
- R51-** Toxic to aquatic organisms.
- R53-** May cause long-term adverse effects in the aquatic environment.

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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