

Safety Data Sheet (SDS) MiTADOR

According to UN GHS 8th Ed
Revision Date: 03/09/2022

First print date: 01/06/2018
Version: 1.1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: MiTADOR

Common Name: Fenbutatin oxide 550g/ℓ SC

Relevant identification uses of the substance and uses advised against:

Identified uses: Insecticide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Details of the Registration Holder:

RT Chemicals CC, 44 Kerk Street,
Lichtenburg, North West, South Africa, 2740

Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

Emergency telephone numbers:

24 Hour Emergency Number: Bateleur: +27 83 123 3911

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to Regulation (EC) No 1272/2008 EU-GHS/CLP

Hazard classes/Hazard categories	Hazard statement
Acute toxicity inhalation (Category 2)	H330
Skin irritation (Category 2)	H315
Eye irritation (Category 2)	H319
Aquatic Toxicity Acute (Category 1)	H400
Aquatic Toxicity Chronic (Category 1)	H410

For full text of H statements see section 16

The most important adverse effects

The most important adverse physicochemical effects: None known

The most important adverse human health effects: Fatal if inhaled. Causes skin irritation. Causes eye irritation.

Label elements



Hazard pictograms:

Signal Word: Danger

Safety Data Sheet (SDS) MiTADOR

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Hazard Statements:

H330	Fatal if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary Statements:

P102	Keep out of reach of children
P201	Obtain special instructions before use.
P260	Do not breathe mist/spray.
P264	Wash hands and face thoroughly after handling.
P273	Avoid release into the environment.
P280	Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P284	In case of inadequate ventilation wear respiratory protection.
P302/352	IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305/351/338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER.
P332/313	If skin irritation occurs: get medical advice.
P337/313	If eye irritation persists: Get medical advice.
P362/364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of content/container in accordance with local regulations.

Other hazards: None known

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Fenbutatin oxide	13356-08-6	50.4%	Skin Irritation (Category 2) H315 Eye irritation (Category 2) H319 Acute toxicity inhalation (Category 2) H330. Aquatic acute (Category 1) H400. Aquatic chronic (Category 1) H410.

For full text of H statements see section 16

Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of MiTADOR and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

Occupational exposure limits, if available, are listed in Section 8.

Safety Data Sheet (SDS) MiTADOR

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SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: Remove the source of contamination or move the person to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. If breathing stops, administer artificial respiration and immediately seek medical attention.

In case of skin contact: : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. If advised by doctor, atropine tablets may be administered

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention immediately

In case of ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Obtain medical attention immediately. Loosen tight clothing such as a collar, tie, belt, or waistband.

Most important symptoms and effects, both acute and delayed:

Inhalation: Fatal if inhaled.

Ingestions: May be harmful if swallowd

Skin contact: Causes skin irritation

Eye contact: Causes serious eye irritation

Symptom of poisoning: None known

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Extinguisher media:

Suitable extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

Small Fire: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Large Fire: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site. Use as little water as possible.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

Advice for fire-fighters:

Avoid inhaling hazardous vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.

Contain fire control agents for later disposal according to Section 13.

Water can be used to cool unaffected containers.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment, and emergency procedures:

Personal precautions: Avoid contact with skin and eyes. Do not breathe in spray mist / fumes / vapours.

Ventilate area of spill or leak, especially in contained areas.

For emergency responders: Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent. Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

Safety Data Sheet (SDS) MiTADOR

According to UN GHS 8th Ed
Revision Date: 03/09/2022

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Emergency procedure: Alert emergency response personnel. Evacuate unprotected spectators and animals.

Environmental precautions:

Stop leak if without risk. Do not touch spilled material. Use a light water spray to reduce vapours.

Prevent entry into drains, watercourses, or confined areas; dike if needed. This product is classified as very toxic to aquatic organisms and will cause long-term adverse effects in the aquatic environment.

If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Methods for containment and cleaning up:

For spills Prevent entry into drains, watercourses, or confined areas. Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. Label containers with the contents and dispose of according to local regulations. Do not place spilled material back in original container. Do not re-use spill material. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent.

See section 13 for disposal consideration

Reference to other sections:

See section 1 for information on emergency contacts

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Harmful if inhaled or swallowed. Irritating to eyes and skin. Avoid contact with eyes and skin, and inhalation of spray and vapour. 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 the pesticide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Water used to clean equipment must be disposed of correctly to avoid

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area and out of reach of unauthorised persons, children, and animals. Store in its original labelled container in isolated, dry, cool and well ventilated area. Fenbutatin oxide becomes unstable on prolonged storage above 37 °C and is rapidly decomposed by UV. Not to be stored close to foodstuffs, animal feeds and water supplies. Local regulations should be complied with.

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

No occupational exposure limits have been determined for the significant ingredients in this product.

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Safety Data Sheet (SDS) MiTADOR

According to UN GHS 8th Ed
Revision Date: 03/09/2022

First print date: 01/06/2018
Version: 1.1

Appropriate engineering controls: Use outdoors in a well-ventilated area. Provide exhaust ventilation or other engineering controls. Ensure that control systems are properly designed. Comply with occupational safety, environmental, fire and other applicable regulations. Ensure that eyewashstations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Avoid contact with eyes. Wear a full-face shield when handling the product or spraying. The use of safety glasses with side shields (or goggles) are recommended if a face shield is not used. This product causes serious eye damage

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Use only in well ventilated areas. An approved respirator suitable for protection from mists of pesticides is adequate. Limitations of respirator use specified by the approved agency and the manufacturer must be observed. For maximum protection, wear a supplied air, full-face piece respirator, airlined hood, or full-face piece self-contained breathing apparatus.

Environmental exposure controls: Prevent product from entry into sewers and water courses

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Suspension concentrate liquid.
Colour	White
Odour	None
Odour threshold	No data available
pH	No data available
Melting point / freezing point (°C)	No data available
Boiling point (°C)	No data available
Flash point (°C)	No data available
Evaporation rate	No data available
Flammability	Non-flammable
Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (25°C) g/cm ³	No data available
Water solubility (g/l) at 20°C	No data available
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (°C)	No data available
Decomposition temperature (°C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal conditions.

Chemical stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions.

Possibility of hazardous reactions: No information available.

Safety Data Sheet (SDS) MiTADOR

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Version: 1.1

Conditions to avoid: Keep the product in a cool, dry place, at below 30 OC. Protect form sunlight, open flame and sources of heat. Does not polymerize.

Incompatible materials: None known

Hazardous decomposition products: Emits toxic and irritant vapours when exposed to extreme conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution: No data available

Information on toxicological effects:

Assessment of acute toxicity:

The product has not been tested. The data reported is for the main ingredients in the mixture.

Fenbutatin oxide tech CAS No. 13356-08-6	
Acute toxicity:	
Acute Oral LD50 (rat)	3000-4400mg/kg
Acute Dermal LD50 (rat):	>1000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	0.46-0.072 mg/g bw
Skin irritation/ corrosion (rabbits)	Moderate skin irritant
Eye damage / irritation (rabbits)	Severe eye irritant
Skin sensitisation	Not a skin sensitiser
Respiratory sensitisation	May cause irritation of the mucous membranes, respiratory tract.
Germ cell mutagenicity	Non-Mutagenic
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	No data available
Aspiration hazard	No data available

Additional Information:

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12. ECOLOGICAL INFORMATION

Fenbutatin oxide tech CAS No. 13356-08-6	
Toxicity	
Birds Dietary LC ₅₀ (5d)	5065 mg/kg Bobwhite quail
Aquatic Toxicity Fish LC ₅₀ (96 hr) Aquatic Toxicity Daphnia LC ₅₀ (24 hr) Algae EC ₅₀ (72h) Bee Toxicity LC ₅₀ (24h) Worms LC ₅₀ (14d) earthworms	0.27 mg/l (rainbow trout) 0.05 - 0.08mg/l >0.005 mg/l (<i>Selenastrum capricornutum</i>) >200 µg/ bee (contact and oral) >1000 mg/kg
Metabolism	In soil, it is metabolised to dihydroxybis(2-methyl-2-phenylpropyl) stannane and 2-methyl-2- phenylpropyl stannonic acid, presumably ultimately forming tin oxide/hydroxide.
Persistence and degradability	No data available
Bioaccumulation potential	No data available

Safety Data Sheet (SDS) MiTADOR

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Mobility in soil	In tests in commercial use, there was minimal movement of Fenbutatin oxide or its metabolites out of the top 30 cm of soil (A. Gray et al., Pestic. Sci., 43, 295-302 (1995)).
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SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Product:

Keep out of drains, sewers, ditches, and waterways. Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be re-used or reprocessed. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

Container:

Refer to container label for disposal information. 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. Pour rinse water into spray tank. Dispose of as hazardous waste. not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number	3082
UN proper shipping name	Environmentally Hazardous Substance; Liquid; N.O.S. (Fenbutatin Oxide 550 g/l)
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP]

Other National regulations:

National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management Waste Act 59 of 2008.

Act 36 of 1947 of the Republic of South Africa. This product is registered under 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

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

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GHS aligned – all sections

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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.