

Triflumuron 480

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: Triflumuron 480
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: Triflumuron 480g/l SC
Chemical Name: 1-(2 - chlorobenzoyl) - 3 - (4 - trifluoromethoxy - phenyl) urea
Empirical Formula: C₁₅H₁₀ClF₃N₂O₃
CAS No.: 64628-44-0
RSA Reg. No.: L6862 Act 36 of 1947

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Triflumuron	480 g/l

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class III -Slightly hazardous.

Main Hazard: No specific hazard to mention.

Flammability: Non-flammable

Chemical Hazard: No specific chemical hazard to mention.

Biological Hazard: Triflumuron will consume the dissolved oxygen in water and produce acid matters (reducing the pH) which can influence the water quality.

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: There is no available whole-body report of poisoning.

First Aid Measures:

Skin Contact: Remove contamination clothing, shoes and leather goods. Wash affected skin immediately with water and non-abrasive soap. Seek medical advice if symptoms develop.

Eye Contact: Immediately flush eyes with gently flowing water for 15 minutes, holding the eyelids open. Seek medical attention.

Ingestion: Induce vomiting only at the instruction of a physician. Never give anything by mouth to an unconscious person. Immediately seek medical attention.

Inhalation: Remove the patient to fresh air. Give artificial respiration if needed. Get medical attention immediately.

Advice to Physician: If ingestion, take measures according to symptoms. Take gastric lavage if possible.

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

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Use water fog, dry chemicals or carbon dioxide.

Firefighting: Firefighters should wear full protective gear, including self-contained breathing apparatus. Avoid inhalation of hazardous vapors. Keep upwind. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool the intact containers. Bund the area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or another extinguishing agent and spillage according to Section 13 of this document. Do not release contaminated water into the environment.

Special Hazards: None to specifically mention.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal Precautions: Do not eat, drink or smoke when dealing with spills. Wear protective clothing and equipment as described in Section 8. Keep people and animals away.

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, 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. For quantities greater than 50ℓ seek advice from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established. Dispose of product waste according to Section 13 of this document.

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 the products 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. 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. Do not leave spray solution in spray tanks for long periods.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Acceptable Daily Intake (ADI): 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 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: Avoid breathing spray mist.

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: Gray and white liquid.

Odor: Odorless

Specific Gravity (SG): 1.245

10. STABILITY AND REACTIVITY

Stability: Stable for up to 2 years under normal warehouse conditions. It is stable at ambient temperature and pressure.

Conditions to Avoid: No data available.

Incompatible Materials: The product cannot be mixed with other alkali pesticides.

Decomposition Products: Triflurumuron belongs to Benzophenone Carbamide Pesticide. Its homologues degrade quickly in nature, acidity is stable, alkali is also easy to degrade. Triflurumuron will consume the dissolved oxygen in water, produce acid matters (reducing the pH) which will totally change the water quality. Even when the pesticide is over-saturated it will not degrade the oxygen-consuming rate.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on the active ingredient toxicity.

Acute Oral LD₅₀ (rat): >10 000 mg/kg

Acute Dermal LD₅₀ (rabbit): No data available.

Acute Inhalation LC₅₀ (rat, 4 hr): No data available.

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

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

Chronic Effects: Results from 90-days animal studies suggest no target organ effects under the conditions of normal handling and use.

Carcinogenicity: Animal studies did not detect any carcinogenic 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 (96 hr): 25 to 398 ppm (gold fish). Low toxicity.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): No data available.

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

Avian Toxicity LD₅₀ (9 days): No data available.

Bee Toxicity LD₅₀: No data available.

Biodegradability: No data available.

Bio-accumulation: No data available.

Mobility: No data available.

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 legislation applying to waste disposal. 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: Empty containers may retain some product residues. Do not re-use the containers. Triple rinse, render container unusable by crushing and/or puncturing and dispose in a safe manner via a licensed disposal contractor to an approved landfill. Comply with any local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN No.: 3082

Hazard Class: 9

Packing Group: III

Proper Shipping Name: Environmentally Hazardous Substance; Liquid; N.O.S.

15. REGULATORY INFORMATION

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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