

FluZade

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: FluZade
Pesticide Classification: Herbicide
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
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: Fluazifop-P-butyl 125 g/l EC
Chemical Name: Butyl (R)-2-(4-((5-(trifluoromethyl)-2-pyridinyl)oxy)phenoxy)propanoate
Empirical Formula: C₁₉H₂₀F₃NO₄
CAS No.: 79241-46-6
RAS Reg. No.: L7775 Act/Wet No. 36 of/van 1947
Namibia Reg. No.: N-AR 1463

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient Name</u>	<u>Concentration</u>
Fluazifop-P-butyl	125 g/l min.
Inert Ingredients (non-hazardous ingredient)	850 g/l max.

3. HAZARD IDENTIFICATION

Hazard Class: WHO Class II -Moderately hazardous.

Main Hazards: Skin sensitization may develop after repeated and prolonged contact with skin.

Flammability: Non-flammable

Chemical Hazard: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Biological Hazard: The active ingredient, fluazifop-p-butyl, has a high potential to bio-accumulate in aquatic species.

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: Eye contact may include discomfort, tearing, redness, swelling and blurred vision.

First Aid Measures:

Skin Contact: No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.

Eye Contact: Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. Call a physician if irritation persists.

Ingestion: If swallowed, immediately telephone a poison control center, emergency treatment center or a physician for advice. Do not make person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then immediately take person and product container, with label, to an emergency treatment center.

Inhalation: Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required. If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

5. FIRE FIGHTING MEASURES

Flammability: Non-flammable

Extinguishing Agents: Use appropriate agent for surrounding fire.

Firefighting: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

Special Hazards: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

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: Liquid spills on floor or other impervious surfaces should be contained or diked and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions provided under Section 13 of this document. Thoroughly scrub floor or other impervious surface with a strong industrial type detergent solution and rinse with water. Do not contaminate water, foodstuffs or feed by storage or disposal.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with skin, eyes and clothing. 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.

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: No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.

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.

Gloves: Wear PVC gloves.

Eyes Protection: For application of product in accordance with label instructions, no special eye protection is needed. Handling of this product during manufacturing or in the event of an accidental discharge of the material which could cause eye contact, workers should wear goggles or a face shield. 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: Handling of the product is not likely to present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material during manufacture or handling which produces a heavy mist, workers should put on respiratory protection equipment. Consult respirator manufacturer to determine appropriate type of equipment. Observe respirator use limitations specified by NIOSH MSHA or the manufacturer.

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: Clear to cloudy white liquid.

pH: 6.8

Solubility in Water: Miscible in water.

Specific Gravity: 0.98 g/ml at 20 °C.

Viscosity: 13 cps (Brookfield).

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: None to specifically mention.

Incompatible Materials: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Decomposition Products: None to specifically mention.

11. TOXICOLOGICAL INFORMATION

Acute toxicity based on active ingredient toxicity.

Acute Oral LD₅₀ (rat): ≥5 000 mg/kg

Acute Dermal LD₅₀ (rabbit): ≥2 000 mg/kg

Acute Inhalation LC₅₀ (rat, 4 hr): ≥ 5.4 mg/l air.

Skin Irritation: This substance is not expected to cause prolonged or significant skin irritation. If absorbed through the skin, this substance is considered practically non-toxic to internal organs. This product is not expected to cause allergic skin reaction.

Eye Irritation: This substance is slightly irritating to the eyes. Results of rabbit eye irritation studies indicate that all eye irritation clears within 72 hours.

Sensitization (guinea pig): Skin sensitization may develop after repeated and prolonged contact with skin.

Chronic Effects: No data available.

Carcinogenicity: Short term tests have shown that fluazifop-p-butyl is unlikely to be carcinogenic.

Mutagenicity: No data available.

Reproductive Hazard: Embryo/fetotoxic effects have been reported in rats. This is not considered to be a risk to humans under normal conditions of handling and use.

12. ECOLOGICAL INFORMATION

Ecotoxicity based on active ingredient toxicity.

Aquatic Toxicity Fish LC₅₀ (96 hr): 1.3 mg/l (rainbow trout). Toxic to fish.

Aquatic Toxicity Daphnia EC₅₀ (48 hr): >1 mg/l.

Aquatic Toxicity Algae EC₅₀ (5 days): Very toxic to algae.

Avian Toxicity LD₅₀: >3 500 mg/kg (mallard duck). Low toxicity to birds.

Bee Toxicity LD₅₀: Non-toxic to bees.

Biodegradability: There is rapid degradation in most soils.

Bio-accumulation: The active ingredient, fluazifop-p-butyl, has a high potential to bio-accumulate in aquatic species.

Mobility: Soil mobility is low.

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 container. 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: 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

Hazard Class: 9

Packing Group: III

Proper Shipping Name: Environmentally Hazardous Substance; Liquid; N.O.S. (contains Fluazifop-P-butyl).

15. REGULATORY INFORMATION

Risk Phrases: **R50/53-** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63- Possible risk of harm to the unborn child.

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

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

S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

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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