

VILLA PREELECT 750 WDG

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: PREELECT 750 WDG
Herbicide
UN No.: 3077
Supplier: Villa Crop Protection (Pty) Ltd.
PO Box 801,
Kempton Park, 1620, South Africa
Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:

24 Hr Transport / Spill emergency no:

Envirosure. +27 31 205 4918
(Hazcall24) +27 86 044 4411

(Client: Villa Crop Protection)
Griffon Poison Information Centre +27 82 446 8946
(Client: Villa Crop Protection)

Poisoning Emergency telephone numbers:

Griffon Poison Information Centre +27 82 446 8946
Poisons Information Centre +27 861 555 777

Villa Crop Protection Emergency number:

National Safety, Health and Environmental Manager:
+27 63 698 0668

2. COMPOSITION / INFORMATION ON INGREDIENTS

Common name: Sulfentrazone
Chemical Name: 2',4'-dichloro-5'-(4-difluoromethyl-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl) methanesulfonanilide (IUPAC)

CAS No.: [122836-35-5]
Chemical Family: triazolinone
Chemical Formula: C₁₁H₁₀Cl₂F₂N₄O₃S
Molecular weight: 387.2

Use: A pre-emergence herbicide for the control of weeds in various crops.

Formulation: Sulfentrazone: 750 g/kg
Water dispersible granule

Hazardous ingredients of toxicological concern:

<u>Inert:</u>	<u>% present:</u>
Sulfentrazone:	75 %
Inert Ingredients:	25 %

Symbols: T, Xi, Xn
Risk-phrase(s): R20/22, R36/38, R51

3. HAZARD IDENTIFICATION

Slightly combustible. May support combustion at elevated temperatures. Slightly toxic to fish and aquatic organisms. Moderate inhalation toxicity. Mild irritation to eyes and skin.

Toxicity Class: Class III. Slight risk of poisoning.
Likely routes of exposure: Skin contact, ingestion and inhalation.

4. FIRST AID MEASURES AND PRECAUTIONS

Inhalation:

If dusts or mists have been inhaled and irritation has developed, remove the source of contamination or move victim to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention.

Skin contact:

Remove contaminated clothing immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water for 15 – 20 minutes. If irritation persists, immediately seek medical attention.

Eye contact:

Immediately flush the contaminated eyes slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Obtain medical attention if irritation persists.

Ingestion:

Do not induce vomiting. Do not give anything by mouth. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Advice on treatment:

No specific antidote is available. This product has moderate inhalation toxicity, and low oral and dermal toxicity. It is mildly irritating to the eyes and slightly irritating to the skin. This product contains a granular material (clay) that may cause mechanical irritation to the eyes. Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care.

5. FIRE FIGHTING MEASURES

Extinguishing agents:

Foam, CO₂ or dry chemicals. Soft stream water fog only if necessary. Contain all runoff.

Fire / Explosion Hazards:

Slightly combustible. This material may support combustion at elevated temperatures.

Fire fighting:

Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Avoid inhaling hazardous vapours and fumes from burning materials. Avoid the accumulation of polluted run-off from the site.

Personal protective equipment:

Fire may produce irritating and/or toxic vapours, mists or other products of combustion. Fire fighters and others that

VILLA PREELECT 750 WDG

MATERIAL SAFETY DATA SHEET

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

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions:

Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.

Environmental precautions:

Isolate and post spill area. Do not allow entering of drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs. Considered a Marine Pollutant.

Occupational spill:

Do not touch-spilled material; stop leak if you can do it without risk. Keep out unprotected persons and animals.

For spills: Large spills should be covered to prevent dispersal. For dry material, use a wet sweeping compound or water to prevent the formation of dust. If water is used, prevent runoff or dispersion of excess liquid by diking and absorbing with a non-combustible absorbent such as clay, sand or soil. Vacuum, shovel or pump all waste material, including absorbent, into a drum and label content for disposal.

To clean and neutralize spill area, tools and equipment, wash with a suitable solution of caustic or soda ash, and an appropriate alcohol (i.e., methanol, ethanol or isopropanol). Follow this by washing with a strong soap and water solution. Absorb, as above, any excess liquid and add to the drums of waste already collected. Repeat if necessary. Label drums with its content and dispose of it in accordance with local regulations.

7. HANDLING AND STORAGE REQUIREMENTS

Handling:

Avoid contact with eyes, skin and clothing. Avoid inhalation of spray and vapour. Use with adequate ventilation. Do not eat, drink or smoke while working. 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. Wash skin thoroughly using a non-abrasive soap and put on clean clothing.

Storage:

Keep under lock and key and out of reach of unauthorised persons, children and animals. Do not use or store near heat, open flame or hot surfaces. Store in its original, labelled container in isolated, dry, cool and well-ventilated area. Not to be stored next to feeds, food and water supplies. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Use local exhaust at all process locations where dust may be emitted. Ventilate all transport vehicles prior to unloading. It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Clothing:

Depending on concentrations encountered, employees must wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items such as shoes, belts and watchbands that become contaminated should be removed and destroyed. Wash all work clothing before reuse (separately from household laundry).

Gloves:

Employee must wear appropriate chemical-resistant gloves made of materials such as butyl rubber, nitrile or neoprene. Thoroughly wash the outside of the gloves with soap and water prior to removal. Inspect regularly for leaks.

Eye protection:

For dust exposure, wear chemical protective safety goggles or a face shield.

Emergency eyewash: 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Creamy white to light brown free-flowing granules.

Odour:

Slightly musty

Flammability:

Not available

Shelf life:

2 years

pH: (1% aqueous dilution)

5 to 8

Explosive properties:

Slightly combustible.

VILLA PREELECT 750 WDG

MATERIAL SAFETY DATA SHEET

Solubility:
 Dispersible in water
Bulk Density:
 0.56 ± 0.03 g/ml

10. STABILITY AND REACTIVITY

Stability:
 Stable under standard and normal storage conditions. Product is stable with a shelf life of 2 years, provided it is stored in its unopened, undamaged original containers in well ventilated and dry conditions, away from sources of heat and spark-generating equipment.
Conditions to avoid:
 Excessive temperature and fire.
Incompatibility:
 Incompatible with excessive heat and fire.
Thermal decomposition:
 Carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, hydrogen chloride, hydrogen fluoride.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀, rats:
 2416 mg/kg
Acute dermal LD₅₀, rats:
 >5000 mg/kg
Inhalation LC₅₀, 4hours, rats:
 0.90 mg/ℓ (4h)
Acute skin irritation:
 Slightly irritating
Acute eye irritation:
 Mild irritation.
Sensitization:
 Not a skin sensitizer.
Teratogenicity/Development:
 Developmental toxicity was observed in some cases.
Mutagenicity:
 Available studies indicate that **Sulfentrazone** is not mutagenic.
Carcinogenicity:
 Not carcinogenic.

12. ECOLOGICAL INFORMATION

Sulfentrazone is stable in soil (half-life = 18 months). In water, **Sulfentrazone** is stable to hydrolysis over the pH range 5 to 9, however, it will readily undergo photolysis (half-life = < 0.5 day). It has a low affinity for organic matter ($K_{oc} = 43$), but is mobile only in soils with high sand content. The potential for **Sulfentrazone** to bio-accumulate is very low, having a Log P_{ow} of 1.48, and a bio-concentration factor of 1.1 – 2.0.

ECOTOXICOLOGY:

Birds:
Sulfentrazone: (tech)
 LD₅₀: Mallard ducks: > 2250 mg/kg
Fish: Slightly toxic to fish.
Sulfentrazone: (tech)
 LC₅₀ (96hrs) Rainbow trout: > 130 mg/ℓ
 Bluegill sunfish: 93.8 mg/ℓ
Daphnia:
Sulfentrazone: (tech)
 LC₅₀ (48hrs) 60.4 mg/ℓ

13. DISPOSAL CONSIDERATION

Pesticide and container disposal:
 Open dumping or burning of this pesticide is prohibited. Never pour untreated waste or surplus products into public sewers or where there is any danger of run-off or seepage into water systems. Do not contaminate rivers, dams or any other water sources with the product or used containers. Emptied containers/bags/sachets retain vapour and product residues. Observe all labelled safeguards until container/bag/sachet is destroyed.
 Empty the container of excess product into the mixing tank or spray tank of the applicator. Destroy the emptied containers/bags/sachets by perforation and flattening. Bury in an approved dumpsite. Do not re-use the empty container/bag/sachet for any other purpose. Comply with any local legislation applying to disposal.
 Prevent contamination of food, feedstuffs, drinking water and eating utensils.

14. TRANSPORT INFORMATION

UN NUMBER: 3077
Road Transport ADR/RID:
 Class: 9
 Packaging group: III
 Shipping name: Environmentally Hazardous
 Substance, Solid, N.O.S
 (**Sulfentrazone** 750 g/kg)
Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 Shipping name: Environmentally Hazardous
 Substance, Solid, N.O.S
 (**Sulfentrazone** 750 g/kg)
Considered a marine pollutant.

15. REGULATORY INFORMATION

Symbol: T, Xi, Xn
Indication of danger: Harmful
Risk phrases:

VILLA PREELECT 750 WDG

MATERIAL SAFETY DATA SHEET

R 20/22 Harmful by inhalation and if swallowed.
R 36/38 Irritating to eyes and skin.
R 51 Toxic to aquatic organisms.
Safety phrases:
S 1/2 Keep locked up and out of the reach of children.
S 13 Keep away from food, drink and animal feeding stuffs.
S 20/21 When using do not eat, drink or smoke.
S 23 Do not breathe gas/fumes/vapour/spray
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

Packaging:

Packed in 1, 5, 10, 12, 15, 20, 25 & 50 kg plastic containers/bags and labelled according to South African regulations and guidelines.

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 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.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.