

ELITE 625 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: ELITE 625 WDG
Other identifier: Cyprodinil + Fludioxonil
Recommended use: Fungicide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
Co. Reg. No.: 1992/002474/07
PO Box 10413,
Aston Manor, 1630, South Africa
Telephone: (011) 396 2233
Fax: (011) 396 4666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
(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

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Dermal	Acute Toxicity 5 Skin Irritation 3 Skin Sensitivity 1	H313 H316 H317
Eye	Eye Irritation 2	H319
Inhalation	Acute Toxicity 4	H332
Environment		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 1	H410

The most important adverse effects:

Physiochemical effects:
None known.

Human health effects:
Causes serious eye irritation.

Label elements:



Signal word: Warning

Hazard statements:

H313: May be harmful in contact with skin.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing dust, mists or spray.
P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
P271: Use only outdoors or in a well-ventilated area.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release into the environment.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
P302+P317: IF ON SKIN: Get medical help.
P302+P352: 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.
P304+P317: IF INHALED: Get medical help.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333+P317: If skin irritation or rash occurs: Get medical help.
P337+P317: If eye irritation persists: Get medical help.
P391: Collect spillage.
P501: Dispose of contents/container in accordance with local regulations.

Special labelling of certain mixtures:

None known.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 4

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition:

Chemical Name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Cyprodinil	121552-61-2	37.5%	Skin Sensitivity 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Fludioxonil	131341-86-1	25%	Aquatic Acute 1 (H400) Aquatic Chronic

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			1 (H410)
Sulfonic acids, C14-16-alkane hydroxy and C14-16 alkene, sodium salts	68439-57-6	< 3%	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic acute 2 (H401)

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the event of any complaints or symptoms, avoid further exposure. Consult a doctor if you feel unwell.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap. Obtain medical attention if irritation persists or a rash develops.

Eyes: Flush eyes with clean water for at least 15 – 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

Ingestion: Seek medical attention or call a poison control centre for treatment advice. Do not induce vomiting unless instructed to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

Anticipated acute effects:

May be harmful in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
Harmful if inhaled.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards: Fire may produce hazardous by-products in dense black smoke as a result of organic components.

Special Fire Fighting Procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate all personnel downwind of the fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Keep upwind. Avoid inhaling hazardous

vapours and fumes from burning materials. Remove container from fire area if possible and without risk. Do not use high volume water jet, due to contamination risk. Do not scatter the burning material. Water can be used to cool unaffected containers but must be contained for later disposal. Contain fire control agents for later disposal. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin and eyes. Do not breathe in spray mist or dust. Ventilate area of spill, especially in contained areas.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Emergency procedures: Alert firefighting personnel, evacuate unprotected personnel and animals.

Environmental Precautions: Prevent spilled product from entering sewers, waterways or ground water. This product is classified to be very toxic to aquatic organisms and causes long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into watercourses should be reported immediately to the police and the Department of Water/Environmental Affairs.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth.

Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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 spilled material. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Keep containers closed when not in use. In the case of contact with the product refer to First Aid Measures – Section 4.

General occupational hygiene: Practice good hygiene when using this material. Wash hands before eating,

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drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Launder all clothing before it is re-used.

Storage:

Conditions for safe storage: Keep under lock and key and out of reach of unauthorised persons, children and animals. Store in its original, labelled container, tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excess heat. Store away from sources of ignition. Not to be stored next to foodstuffs, feed and water supplies. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers and bags; drums.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration:

Components	Exposure limits	Type of exposure limit	Source
cyprodinil	5 mg/m ³	TWA	OEL
fludioxonil	5 mg/m ³	TWA	OEL

Engineering Controls:

It is essential to provide adequate ventilation. The measures appropriate for a particular worksite depend on how this material is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below occupation exposure limits (OELs) or other specified exposure limits. Local exhaust ventilation is preferred. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.

Personal Protective Equipment:

Respiratory Protection: It is advisable to use a NIOSH approved air-purifying respirator customised for this specific use. (When purchasing a respirator, make sure to take the formulation type – WDG – and active ingredient into consideration).

Hand Protection: The use of chemically protective gloves is recommended to prevent against skin contact.

Eye Protection: The use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employee must wear appropriate protective clothing; boots, hat and equipment to prevent repeated or prolonged skin contact with this substance.

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: Grey to brown solid.

Odour: Weak odour.

pH (1% aqueous dilution): 7.0 – 10.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not flammable.

Upper/lower explosion limits: Not applicable.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 537 kg/m³

Solubility: Dispersible in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not applicable.

Decomposition temperature: Not available.

Viscosity: Not applicable.

10. STABILITY AND REACTIVITY

Chemical Stability: The product is stable for two years at ambient temperature and pressure, under normal storage and handling conditions. Avoid storage under extreme temperatures and conditions. Store below 50 °C, preferably below 30 °C, and not for prolonged periods in direct sunlight.

Reactivity: None known.

Possibility of Hazardous Reactions: None known under normal storage conditions

Conditions to Avoid: Extreme heat or exposure to flames or sources of ignition.

Incompatible Materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous Decomposition Products: Not available.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ rat > 5100 mg/kg

Dermal LD₅₀ rat > 3200 mg/kg

Inhalation LC₅₀ (4h) rat > 2.45 mg/l

Skin Irritation: Causes mild skin irritation.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: None known.

Reproductive cell mutagenicity: None known.

Carcinogenicity: None known.

Reproductive toxicity: None known.

Specific target organ toxicity – single exposure: None known.

Specific target organ toxicity – repeated exposure: None known.

Aspiration hazard: None known.

Chronic Effects: None known.

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POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Skin contact: May be harmful in contact with skin.

Eye contact: Causes serious eye irritation.

Ingestion: None known.

12. ECOLOGICAL INFORMATION

This product is considered to be very toxic to aquatic organisms with long-term adverse effects in the aquatic environment.

ECOTOXICITY DATA: Based on active ingredients

Cyprodinil

Fish:

LC ₅₀ (96 h)	Rainbow trout	2.41 mg/l
Static	Bluegill sunfish	2.17 mg/l
Flow-through		> 3.20 mg/l

Daphnia:

EC ₅₀ (48 h)		0.033 mg/l
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Algae:

ErC ₅₀ (72 h)	<i>Pseudokirchneriella subcapitata</i>	3.276 mg/l
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Birds:

Acute LD ₅₀	Mallard ducks	> 500 mg/kg
Dietary	Mallard ducks	
	Bobwhite quail	> 5200 mg/kg

Bees:

LD ₅₀ (48 h) contact		> 784 ug/bee
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Worms:

LC ₅₀ (14 d)	<i>Eisenia foetida</i>	192 mg/kg
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ENVIRONMENTAL EFFECTS:

Animals: After oral administration, cyprodinil is rapidly absorbed and almost completely eliminated with urine and faeces. Metabolism proceeds by 4-hydroxylation of the phenyl and 5-hydroxylation of the pyrimidine ring, followed by conjugation, predominantly sulfation. Residues in tissues are generally low and there is no evidence for accumulation or retention of cyprodinil or its metabolites.

Plants: Metabolism proceeded mainly via hydroxylation of the 6-methyl group of the pyrimidine ring, as well as hydroxylation of the phenyl and pyrimidine rings, followed by sugar conjugation.

Soil/Environment:

Persistence and degradability: In soil, the compound dissipated with DT₅₀ 20-60 at normal soil humidity and temperature, whereby formation of bound residues represents the major route for dissipation. Photolytic DT₅₀ in water 13.5 d.

Bio-accumulative Potential: Not determined.

Mobility in soil: Leaching and adsorption/desorption experiments show that the compound is immobile in soil.

Other adverse effects: Not determined.

Fludioxonil

Fish:

LC ₅₀ (96 h)	Bluegill sunfish	0.74 mg/l
	Catfish	0.63 mg/l
	Common carp	1.50 mg/l
	Rainbow trout	0.23 mg/l

Daphnia:

LC ₅₀ (48 h)		0.40 mg/l
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Algae:

EC ₅₀ (96 h)	<i>Pseudokirchneriella subcapitata</i>	0.31 mg/l
ErC ₅₀	<i>Selenastrum capricornutum</i>	0.025 mg/l

Birds:

Acute oral LD ₅₀	Mallard ducks	
	Bobwhite quail	> 2000 mg/kg
LC ₅₀	Mallard ducks	
	Bobwhite quail	> 5200 ppm

Bees:

LD ₅₀ (48 h) oral & contact		> 100 ug/bee
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Worms:

LC ₅₀ (14 d)	<i>Eisenia foetida</i>	> 1000 mg/kg
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ENVIRONMENTAL EFFECTS:

Animals: Well absorbed from the gastrointestinal tract, rapidly distributed in the body and completely excreted. The major metabolic reaction is the oxidation of the pyrrole ring at the 2- position.

Plants: Metabolism proceeds via oxidation at the pyrrole ring, followed by ring opening and the formation of pyrrolidine carboxylic acid. In general, fludioxonil is metabolised to more than 10-15 minor metabolites.

Soil/Environment: Formation of bound residues is the major route of dissipation in soil.

Persistence and degradability: Field DT₅₀ c. 14 d and c. 26-54 d after foliar and seed treatment use, respectively. Photolytic DT₅₀ in water is 9 – 10 d (natural sunlight).

Bio-accumulative Potential: Not determined.

Mobility in soil: In leaching and adsorption/desorption experiments, the compound proved to be immobile in soil.

Other adverse effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or re-processed. Never pour untreated waste or surplus product 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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Empty containers by inverting the empty container over

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the spray or mixing tank. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the container to any other parties that may use it as a container for food or beverages. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 3077
Road Transport ADR/IRD:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil 375g/kg + Fludioxonil 250 g/kg)
Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil 375g/kg + Fludioxonil 250 g/kg)
Marine Pollutant (Y/N): Yes.
Air Transport IATA/ICAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil 375g/kg + Fludioxonil 250 g/kg)
Special/Environmental Precautions: Wedge drums tightly to avoid movement.
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:
 OSHA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

EU regulation: Regulation EC1272/2008 (EU-GHS/CLP)

Other national regulations: None.

Chemical Safety Assessment carried out? No

16. OTHER INFORMATION

Packaging: Packed in 10 g, 20 g, 30 g, 50 g, 100 g, 250 g, 300g, 400 g, 500 g, 700 g, 800 g, 1 kg, 2.5 kg, 5 kg, 10

kg, 15 kg, 20 kg, 25 kg, 50 kg, 100 kg, 200 kg, 225 kg, 230 kg, 250 kg, 500 kg, 550 kg, 600 kg, 700 kg, 800 kg, 850 kg, 900 kg, 1000 kg plastic containers and/or bags or drums, labelled according to South African regulations and guidelines.

Additional H statements (formulants):

H315: Causes skin irritation.

H318: Causes serious eye damage.

H401: Toxic to aquatic life.

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.

END OF DOCUMENT

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For detailed information on revisions, contact the Registration holder.