

CHOIR 500 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CHOIR 500 WDG
Other identifier: Cyprodinil 500 WDG
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		
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
	Skin Irrit. 3	H316
	Skin Sens. 1	H317
Inhalation	Acute Tox. 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: Maybe harmful if swallowed
Maybe harmful in contact with skin.
Causes mild skin irritation.
May cause an allergic skin reaction.
Harmful if inhaled.

Label elements:



Signal word: Warning.

Hazard statements:

H303: May be harmful if ingested
H313: May be harmful in contact with skin.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
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, fumes, mists, gas, vapours or spray.(respiratory sensitization).
P264: Wash hands and face thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
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.
P301+P317: IF SWALLOWED: 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.
P330: Rinse mouth.
P333+P317: If skin irritation or rash occurs: Get medical help.
P391: Collect spillage.
P501: Dispose of contents/container to suitable landfill 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	50 %	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Alkylated naphthalene sulfonate	68425-94-5	<5 %	Skin Irrit. 2 (H315) Eye Irrit. 3 (H319)

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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. Immediately consult a doctor.

Inhalation: Immediately remove source of contamination or move victim to fresh air. If breathing has stopped, qualified personnel should perform artificial respiration. Avoid mouth-to-mouth resuscitation. Keep person warm and at rest. **Seek medical advice immediately.**

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 sensitivity 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 immediately.**

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. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

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

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: No specific antidote is available. Treat symptomatically and supportively when required.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media: High volume water jet.

Specific hazards: Product contains combustible components; dense black smoke will be produced upon combustion that contains hazardous products.

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 eyes and skin. Do not breathe in spray mists or dusts. Ventilate area of spill or leak, 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 may cause 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: Control spill at source provided it is safe to do so without risk.

Methods and Materials for Clean-up: Contain spilled product and collect 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: Eliminate the presence of mechanical sparks, flammable solvents and other ignition sources where dust clouds of this material could form. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly 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, 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:

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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 excessive heat. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic containers and bags.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Cyprodinil	7 mg/m ³	8 h (TWA)	OES

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 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: For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a NIOSH approved air-purifying respirator with cartridges/canisters approved for dusts.

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

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

Skin and Body Protection: Employee must wear appropriate protective (impervious) 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: Light brown. Water dispersible granule.

Odour: Odourless.

pH (1% aqueous dilution): 6.5.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not applicable.

Upper/lower explosion limits: Not available.

Relative Vapour Density: Not available.

Bulk density: Not applicable.

Solubility: Disperses 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. Avoid contact with sources of ignition and flammable solvents.

Reactivity: Not available.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: May form flammable dust clouds.

Incompatible Materials: None known.

Hazardous Decomposition Products: None expected under normal use. Can decompose at high temperatures and produce toxic and irritating gases.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated according to GHS.

Oral LD₅₀ (24 h) rat >3900 mg/kg.

Dermal LD₅₀ (24 h) rat >3900 mg/kg.

Inhalation LC₅₀ (4 h) rat >2.0 mg/L.

Skin Irritation/Corrosion: Causes mild skin irritation.

Eye Irritation/Corrosion: Not calculated.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Not calculated.

Reproductive cell mutagenicity: Not calculated.

Carcinogenicity: Not calculated.

Reproductive toxicity: Not calculated.

Specific target organ toxicity – single exposure: Not calculated.

Specific target organ toxicity – repeated exposure: Not calculated.

Aspiration hazard:

Chronic Effects: Not calculated.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Skin contact: Maybe harmful in contact with skin.

Eye contact: Not calculated.

Ingestion: Maybe harmful if swallowed.

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12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA: Based on the active ingredient.

Fish:

LC ₅₀ (96 h)	Rainbow trout	2.41 mg/l
	Bluegill sunfish (static)	2.17 mg/l
	sheepshead minnows	1.25 mg/l

Daphnia:

EC ₅₀ (48 h)		0.033 mg/l
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Algae:

E _b C ₅₀ (72h)	<i>Pseudokirchneriella subcapitata</i>	3.28 mg/l
	<i>Anabaena flos-aquae</i>	5.34 mg/l
	<i>Navicula pelliculosa</i>	3.24 mg/l
	<i>Skeletonema costatum</i>	1.89 mg/l

Birds:

Acute LD ₅₀	Mallard ducks	>500 mg/kg
Dietary LD ₅₀	Bobwhite quail	>2000 mg/kg
	Mallard ducks & Bobwhite quail	>5200 ppm

Bees:

LD ₅₀ (48 h)		784 ug/bee
Contact		

Worms:

LC ₅₀ (14 d)	<i>Eisenia foetida</i>	192 mg/kg soil
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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.

ENVIRONMENTAL EFFECTS:

Animal: After oral administration, cyprodinil is rapidly absorbed and almost completely eliminated with urine and faeces. Metabolism proceeds by 4-hydroxylation of the phenyl and the 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.

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

Bio-accumulative Potential: Does not bioaccumulate.

Mobility in soil: Low mobility 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. The product may be taken to a registered waste disposal site or incineration plant. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Container: Emptied containers retain dust and product residues. Do not re-use the empty container for any other purpose. Empty containers by inverting the container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. 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. (Add any additional disposal information on a product dependent basis.)

Plastic bag: Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces 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 foodstuffs.

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 500 WDG)

Maritime Transport IMDG/IMO:

Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S
(Cyprodinil 500 WDG)

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 200 WDG)

Special/Environmental Precautions: None known.

Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code): Not available.

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15. REGULATORY INFORMATION

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

OHS 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 100, 200, 250, 500 g and 1, 5, 10, 12, 15, 20, 25 and 50 kg plastic container and bags and labelled according to the South African regulations and guidelines.

Additional H-statement (s) (formulants)

H315: Causes skin irritation.

H319: Causes serious eye irritation.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

LD₅₀ value: The median lethal dose or the amount of a toxic agent that is sufficient to kill 50 percent of a population within a certain period of time.

OEL/RL: Occupational exposure limit-recommended limit.

TWA: Time-weighted average – The average exposure over a specified period, usually a nominal eight hours.

ST/STEL: Short-term exposure limits.

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

Compiled: April 2018

Reviewed: August 2022

Revision no.: (4)

Next revision date: August 2027

For detailed information on revisions, contact the Registration holder.