


## Safety Data Sheet

# CYPROCIDE WG L9058 (Act 36 of 1947)

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	CYPROCIDE WG
Other means of identification:	Cyprodinil, Fludioxonil 625 g/kg WG
Chemical Name:	Cyprodinil: 4-cyclopropyl-6-methyl-N-phenylpyrimidin-2-amine Fludioxonil: 4-(2,2-difluoro-1,3-benzodioxol-4-yl)pyrrole-3-carbonitrile
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	3077
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL: 011 822-8509 FAX: 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 TYGERBERG:021 931 6129 RED CROSS 021 689 5227 RAPID SPILL RESPONSE 0800 775 3305
2) HAZARDS IDENTIFICATION	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 4 Acute Toxicity (Inhalation) Category 4 Skin Irritation Category 3 Eye Damage Category 1 Skin Sensitization Category 1 Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements: Globally Harmonized System, EU (GHS):	<p><b>Pictograms:</b></p>  <p>Signal word: Danger</p> <p><b>Hazard Statements:</b>  <b>H228:</b> Flammable solid.  <b>H302:</b> Harmful if swallowed.  <b>H315:</b> Causes skin irritation.  <b>H317:</b> May cause an allergic skin reaction.  <b>H318:</b> Causes serious eye damage.  <b>H332:</b> Harmful if inhaled.  <b>H335:</b> May cause respiratory irritation.  <b>H400:</b> Very toxic to aquatic life.  <b>H410:</b> Very toxic to aquatic life with long-lasting effects.  <b>H412:</b> Harmful to aquatic life with long-lasting effects.</p> <p><b>Precautionary Statements:</b>  <b>P201:</b> Obtain special instructions before use.</p>

According to Directive 67/548/EEC No. 1272/2008 [CLP]

**P202:** Do not handle until all safety precautions have been read and understood.  
**P260:** Do not breathe dust/mist/spray.  
**P262:** Do not get in eyes, on skin, or on clothing.  
**P270:** Do not eat, drink or smoke when using the product.  
**P272:** Contaminated work clothing should not be allowed out of the workplace.  
**P273:** Avoid release to the environment.  
**P280:** Wear protective gloves, protective clothing, eye protection.  
**P321:** Specific treatment (See First aid measures on this label)  
**P362+P364:** Take off contaminated clothing and wash it before reuse.  
**P405:** Store locked up.

**Hazard Symbol(s):**

Xn – dangerous to health  
Xi - Irritant  
N – dangerous for the environment

**R-phrases(s):**

**R20/22:** Harmful by inhalation and if swallowed  
**R36/37/38:** Irritating to eyes, respiratory system and skin.  
**R43:** May cause sensitization by skin contact.  
**R50/53:** Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases(s):**

**S2:** Keep out of reach of children.  
**S7:** Keep container tightly closed.  
**S13:** Keep away from food, drink and animal feeding stuffs.  
**S20/21:** When using, do not eat drink or smoke.  
**S23:** Do not breathe dust/fumes/vapour/spray.  
**S24/25:** Avoid any inhalation, contact with skin and eyes.  
**S35:** This material and its container must be disposed of in a safe way.  
**S36:** Wear suitable protective clothing and gloves.  
**S38:** In case of insufficient ventilation, wear suitable respiratory equipment.  
**S46:** If swallowed, seek medical advice immediately and show this container.  
**S57:** Use appropriate containment to avoid environmental contamination.

**3) COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Substances:**

Not applicable

**3.2 Mixtures:**

Chemical name	Concentration	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)
Cyprodinil	37.5%	121552-61-2	601-785-8	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Fludioxonil	25%	131341-86-1	603-476-3	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Sodium dodecyl sulphate	4%	151-21-3	205-788-1	Acute Tox 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412) Flam. Sol. 2 (H228) Acute Tox 4 (H332) STOT SE 3 (H335, inhalation)

**4) FIRST AID MEASURES**

**Description of First-Aid Measures:**


**Inhalation:**

Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately if necessary.

<b>Skin contact:</b>  <b>Eye contact:</b>  <b>Ingestion:</b>  <b>Most important symptoms and effects, both acute and delayed:</b>  <b>Indication of any immediate medical attention and special treatment needed:</b>	<p>Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance if irritation persists.</p> <p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance immediately.</p> <p>Repeatedly administer medicinal charcoal in large quantity of water. NOTE: Do not induce vomiting.</p> <p>None known.</p> <p>No specific antidote known. Treat symptomatically. Prevent aspiration. Administer medicinal charcoal or consider a laxative.</p>
<b>5) FIRE-FIGHTING MEASURES</b>	
<b>Extinguishing Media:</b>  <b>Unsuitable Extinguishing Media:</b>  <b>Specific Hazards arising from the substance/mixture:</b>  <b>Fire Fighting:</b>        <b>Protective clothing:</b>	<p>Carbon dioxide, dry chemical powder, water or foam. If conditions permit, let the fire burn itself out.</p> <p>Do not use high volume water jet, due to contamination risk.</p> <p>May generate poisonous and corrosive fumes.</p> <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>Full protective clothing and self-contained breathing apparatus</p>
<b>6) ACCIDENTAL RELEASE MEASURES</b>	
<b>Personal precautions, protective equipment and emergency procedures:</b>  <b>Environmental precautions:</b>  <b>Methods and material for containment and cleaning up:</b>	<p>Avoid fumes and contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.</p> <p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material, remove by scoop or vacuum. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. Heavily contaminated soil layers have to be dug out down to clean soil. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p>
<b>7) HANDLING &amp; STORAGE</b>	
<b>Precautions for Safe Handling:</b>	<p>Avoid skin and eye contact and inhalation of spray mist. Ensure adequate ventilation. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.</p>

		APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor. BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.																	
Conditions for Safe Storage, including any incompatibilities:		Store in original container tightly closed and in a locked, dry, cool area away from foodstuffs, fertilisers and seeds. Keep away from children or uninformed persons. Avoid extreme temperatures.																	
8) EXPOSURE CONTROL / PERSONAL PROTECTION																			
Appropriate Engineering Controls:		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.																	
Control Parameters: Occupational exposure limits:		<table border="1"><thead><tr><th>Ingredient</th><th>CAS#</th><th>Limit</th><th>Basis</th></tr></thead><tbody><tr><td>Cyprodinil</td><td>121552-61-2</td><td>5 mg/m<sup>3</sup></td><td>TWA (Syngenta)</td></tr><tr><td>Fludioxonil</td><td>131341-86-1</td><td>5 mg/m<sup>3</sup></td><td>TWA (Syngenta)</td></tr><tr><td>Sodium dodecyl sulphate</td><td>151-21-3</td><td>4 mg/m<sup>3</sup></td><td>TWA (EH40/2005)</td></tr></tbody></table>		Ingredient	CAS#	Limit	Basis	Cyprodinil	121552-61-2	5 mg/m <sup>3</sup>	TWA (Syngenta)	Fludioxonil	131341-86-1	5 mg/m <sup>3</sup>	TWA (Syngenta)	Sodium dodecyl sulphate	151-21-3	4 mg/m <sup>3</sup>	TWA (EH40/2005)
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PERSONAL PROTECTIVE EQUIPMENT:		Consult supplier to confirm that the equipment is suitable.																	
Clothing:		Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.																	
Respiratory protection:		Wear respirator if ventilation is inadequate or exposure to high levels are likely.																	
Gloves:		Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance																	
Eye protection:		The use of safety goggles with side shields is recommended.																	
Emergency eye wash:		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 & CHEMICAL PROPERTIES																			
Form:		Granules																	
Colour:		Brown																	
Odour:		Characteristic																	
Solubility:		Not Soluble																	
pH:		8 - 11																	
Odour threshold:		Not available																	
Melting point / Freezing point		Not available																	
Initial boiling point and boiling range		Not applicable																	
Flash point:		Not highly flammable																	
Evaporation rate:		Not applicable																	
Flammability (solid, gas)		Not highly flammable																	
Upper/ lower flammability or explosive limits:		Not available																	
Vapour pressure:		3.8 x 10 <sup>-6</sup> mmHg (Cyprodinil), 2.9 x 10 <sup>-9</sup> mmHg (Fludioxonil) @ 25°C																	
Vapour density:		Not available																	
Relative density:		0.54 g/cm <sup>3</sup>																	
Partition coefficient: n-octanol/water		Not available																	
Auto-ignition temperature:		Not available																	

<b>Decomposition Temperature:</b>	Not available
<b>Viscosity:</b>	Not applicable
<b>10) STABILITY &amp; REACTIVITY</b>	
<b>Reactivity:</b>	No hazardous reactions if stored and handled as indicated.
<b>Chemical Stability:</b>	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	Avoid high temperatures.
<b>Incompatible materials:</b>	None known.
<b>Hazardous decomposition product(s):</b>	Can decompose at high temperatures forming toxic gasses.
<b>11) TOXICOLOGICAL INFORMATION</b>	
<b>Acute Toxicity:</b> <b>Oral:</b> <b>Dermal:</b> <b>Inhalation:</b>	LD50 > 5 000 mg/kg, rat. LD50 > 2 000 mg/kg, rabbit. Cyprodinil : LC50 >1.2 mg/kg (4h), rat. Fludioxonil: LC50 >2600 mg/kg (4h), rat.
<b>Skin Corrosion/Irritation:</b>	May cause mild irritation and may be harmful.
<b>Serious Eye Damage/Irritation:</b>	May cause moderate irritation.
<b>Respiratory or Skin Sensitization:</b>	May cause skin sensitization.
<b>Germ Cell Mutagenicity:</b>	Animal testing did not show any mutagenic effects
<b>Carcinogenicity:</b>	No evidence of carcinogenicity in animal studies.
<b>Reproductive Toxicity:</b>	No toxicity to reproduction
<b>STOT-SE:</b>	May cause respiratory irritation.
<b>STOT-RE:</b>	No adverse effect has been observed in chronic toxicity tests
<b>Aspiration Hazard:</b>	May cause respiratory irritation.
<b>12) ECOLOGICAL INFORMATION</b>	
<b><u>Ecotoxicity: Cyprodinil</u></b> <b>Birds:</b> <b>Fish:</b>  <b>Daphnia:</b> <b>Algae:</b> <b>Worms:</b> <b>Bees:</b>	Acute LD50 mallard ducks > 500 mg/kg. LC50 (96 h) rainbow trout 2.41 mg/L, bluegill sunfish 2.17 mg/L. EC50 (48 h) 0.033 mg/L. EC50 (72 h) <i>Pseudokirchneriella subcapitata</i> 2.6 mg/L. LC50 (14 d) <i>Eisenia foetida</i> 192 mg/kg. LD50 (48 h) > 100 µg/bee (oral and contact).
<b><u>Ecotoxicity: Fludioxonil</u></b> <b>Birds:</b>  <b>Fish:</b>  <b>Daphnia:</b> <b>Algae:</b> <b>Worms:</b> <b>Bees:</b>	Acute LD50 mallard ducks and bobwhite quail > 2000 mg/kg. LC50 (96 h) rainbow trout 0.23 mg/L, bluegill sunfish 0.74 mg/L, catfish 0.63 mg/L and common carp 1.5 mg/L. LC50 (48 h) 0.40 mg/L. EC50 (72 h) <i>Scenedesmus subspicatus</i> 0.93 mg/L. LC50 (14 d) <i>Eisenia foetida</i> > 1000 mg/kg soil. Non-toxic. LD50 (48 h) > 100 µg/bee (oral and contact).
<b>Persistence and Degradability:</b>	Fludioxonil: Formation of bound residues is the major route for dissipation in soil. Field DT <sub>50</sub> c. 14 d and c. 26–54 d after foliar and seed treatment use, respy. Photolytic DT <sub>50</sub> in water is 9–10 d (natural sunlight). Cyprodinil: In soil, the compound dissipated with DT <sub>50</sub> 20–60 d at normal soil humidity and temperature, whereby formation of bound residues represents the major route for dissipation. Photolytic DT <sub>50</sub> in water 13.5 d.
<b>Bio-accumulative Potential:</b>	No evidence of accumulation.
<b>Mobility in Soil:</b>	In leaching and adsorption/desorption experiments, the compounds proved to be immobile in soil.
<b>13) DISPOSAL CONSIDERATIONS</b>	
<b>Waste Disposal:</b>	In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved chemicals waste disposal facility.
<b>Container Disposal:</b>	Refer to the product label for instructions. If the container is to be refilled, do not rinse with any material, or introduce any pesticide other than this product.

	DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.
<b>14) TRANSPORTATION INFORMATION</b>	
<b>Road Transport ADR / IRD:</b>	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil and Fludioxonil) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
<b>Maritime Transport IMDG / IMO:</b>	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil and Fludioxonil) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Marine Pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling. 
<b>Air Transport ICAO / IATA:</b>	UN NUMBER: 3077 UN Proper Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Cyprodinil and Fludioxonil) Transport Hazard Class: 9 Miscellaneous Dangerous Goods Packaging group: III Labelling no: 9 Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):</b>	No transport in bulk according to the IBC Code.
<b>15) REGULATORY INFORMATION</b>	
<b>Safety, health and environmental regulations/legislation specific for the substance/mixture:</b>	For the user of this plant-protective product applies: 'To avoid risks to man and the environment, comply with the instructions for use.' (Directive 1999/45/EC, Article 10, No. 1.2)
<b>Chemical Safety Assessment:</b>	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
<b>16) OTHER INFORMATION</b>	
<p>All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.</p> <p>It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.</p> <p>The information contained herein is provided in good faith but makes no representation as to its comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate handling of the material. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.</p> <p>MERIDIAN AGRITECH MAKES NO REPRESENTATION OR WARRANTIES, EITHER EXPRESSES OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANT ABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MERIDIAN AGRITECH (PTY) LTD WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.</p>	

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**Abbreviations and acronyms:**

1. CAS number: Chemical Abstracts Service number.
2. CLP: Classification, Labelling, Packaging.
3. LD<sub>50</sub>: Lethal Dose for 50% of the test population.
4. LC<sub>50</sub>: Lethal Concentration for 50% of the test population.
5. DT<sub>50</sub>: Half-life.
6. GHS: Globally Harmonised System (of Classification and Labelling of Chemicals).
7. STOT: Specific Target Organ Toxicity
8. SE: Single exposure
9. RE: Repeated exposure
10. TWA: Time-weighted average.

**Literature References:**

- GHS: [www.ccohs.ca/oshanswers/chemicals/ghs.html](http://www.ccohs.ca/oshanswers/chemicals/ghs.html)
- ECHA: <https://echa.europa.eu/search-chemicals>