

## Safety Data Sheet

### Cymax M WP L 7680 (Act 36 of 1947)

N-AR 1538

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1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	CYMAX M WP
Other means of identification:	Cymoxanil, Mancozeb 760 g/kg WP
Recommended use:	Fungicide
Restrictions on use:	Agriculture
UN No:	2588
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 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 GRIFFON POISON CENTRE: 082 446 8946.
Chemical Name:	<u>Mancozeb</u> : Manganese ethylenebisdithiocarbamate polymeric complex with zinc salt. <u>Cymoxanil</u> : -(2Cyano-2-methoxyiminoacetyl)-3-Ethylurea.
2) Hazards Identification:	
Product Classification:	Xn; N; R43; R50/53; R63 Full text of phrases; see section 15
Label Elements:	Hazard symbols: Xn – Harmful N – Dangerous for the environment     Signal word: Harmful
Health effects: eyes:	May cause eye irritation. May be harmful
Health effects: skin:	Mild skin irritation. Not a skin sensitiser.
Health effects: inhalation	Unlikely to cause irritation. May be harmful
Health effects: ingestion	May cause irritation. May be harmful.
3) Composition Details:	
COMPOSITION	Mancozeb 700 g/kg Cymoxanil 60 g/kg

<b>4) First Aid Measures:</b>	
<b>Inhalation:</b>  <b>Skin contact:</b>  <b>Eye contact:</b>  <b>Ingestion</b>  <b>Advice to physician:</b>	<p>Unlikely to cause harmful effects under normal. Remove patient to fresh air. 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.</p> <p>Wash body and clothes with soap and water. Remove contaminated clothing and footwear. If a large area is affected seek medical assistance.</p> <p>Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.</p> <p>Rinse mouth, one or 2 glasses of water may be given. Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre. Seek medical assistance immediately.</p> <p>No specific antidote for this product. Persons providing first aid must wear gloves to avoid self-contamination. Symptomatic treatment and supportive therapy as indicated.</p>
<b>5) Fire-Fighting Measures:</b>	
<b>Flash point:</b>  <b>Extinguishing Media:</b>  <b>Fire Fighting:</b>  <b>Protective clothing:</b>	<p>Non combustible</p> <p>Will not burn readily. For small fires, use foam, carbon dioxide, dry powder or halon extinguishant. For large fires, use foam or water-fog; avoid use of water jet.</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.</p> <p>Avoid inhaling hazardous vapours and corrosive fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used for cooling of unaffected stock, but avoid the accumulation of polluted run-off from the site. Contain fire control water for later disposal. On small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated.</p> <p>Cool containers/tanks with spray water.</p> <p>Full protective clothing and self-contained breathing apparatus</p>
<b>6) Accidental Release Measures:</b>	
<b>Personal precautions:</b>  <b>Environmental precautions:</b>  <b>Occupational spill:</b>	<p>Avoid 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>Prevent product from spreading and collect into specially marked, tightly closing containers. Treat contaminated areas with water containing soda or detergent. Dike spill area and collect washings to avoid any contamination of surface and ground water, water supplies and drains. Heavily contaminated soil layers should be removed and disposed of in an approved way. Rinse the spill area and any tools or implements several times with soapy water. Contain and absorb the rinsate with inert absorbents and place into the same disposal container as the spill material. Notify regulatory authorities if necessary.</p>
<b>7) Handling &amp; Storage:</b>	

<p><b>Handling:</b></p> <p><b>Storage:</b></p>	<p>Avoid skin and eye contact and inhalation of spray mist. 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. Spills may be slippery and should be cleaned up immediately.</p> <p>Do not contaminate water, food or feed.</p> <p>Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from foodstuffs, fertilisers and seeds. Keep out of reach of children.</p>
<p><b>8) Exposure Control / Personal Protection:</b></p>	
<p>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.</p> <p><b>Occupational Exposure Limits:</b></p> <p><b>Engineering controls:</b></p> <p><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b></p> <p><b>Clothing:</b></p> <p><b>Gloves:</b></p> <p><b>Eye protection:</b></p> <p><b>Emergency eye wash:</b></p>	<p>Not available</p> <p>Ensure adequate ventilation, especially in confined areas. Provide for appropriate exhaust ventilation and dust collection at machinery.</p> <p>Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Contaminated clothing must be washed before re-use.</p> <p>Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance. Wash thoroughly with soap and water after handling.</p> <p>The use of safety goggles is recommended.</p> <p>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.</p>
<p><b>9) Physical &amp; Chemical Properties:</b></p>	
<p><b>Form:</b></p>	<p>Wettable powder.</p>
<p><b>Colour:</b></p>	<p>Light yellow</p>
<p><b>Odour:</b></p>	<p>Sulphurous odour.</p>
<p><b>Solubility:</b></p>	<p>Water dispersible</p>
<p><b>Ph:</b></p>	<p>5.0 - 7.0</p>
<p><b>Odour threshold:</b></p>	<p>Not available</p>
<p><b>Melting point / Freezing point</b></p>	<p>Not available</p>
<p><b>Initial boiling point and boiling range</b></p>	<p>Not available</p>
<p><b>Flash point:</b></p>	<p>Not applicable</p>
<p><b>Evaporation rate:</b></p>	<p>Not available</p>
<p><b>Flammability (solid, gas)</b></p>	<p>Does not sustain combustion</p>
<p><b>Upper/ lower flammability or explosive limits:</b></p>	<p>None</p>
<p><b>Vapour pressure:</b></p>	<p>Not available</p>
<p><b>Vapour density:</b></p>	<p>Not available</p>
<p><b>Relative density:</b></p>	<p>Not available</p>
<p><b>Partition coefficient: n-octanol/water</b></p>	<p>Not available</p>
<p><b>Auto-ignition temperature:</b></p>	<p>Not applicable</p>
<p><b>Viscosity:</b></p>	<p>Not applicable</p>
<p><b>10) Stability &amp; Reactivity:</b></p>	

<b>Stability:</b>	No decomposition if stored and applied as directed. Avoid temperatures above 49 °C. Incompatible with acids.
<b>Conditions to avoid:</b>	Avoid temperatures above 49°C. Overheating causes thermal decomposition. Under severe dusting conditions, this material may form explosive mixtures in the air.
<b>Incompatible materials:</b>	Acids
<b>Hazardous decomposition product(s):</b>	Hydrogen sulphide, carbon disulphide, carbon oxides, sulphur oxides, nitrogen oxides. During processing, dust may form explosive mixture in air. Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.

#### 11) Toxicological Information:

Mancozeb: LD50/oral/rat = > 6000 mg/kg  
LD50/dermal/rat = > 12000 mg/kg  
LC50/inhalation/4h/rat = > 5.14 mg/l

Cymoxanil: LD50/oral/rat = > 12000 mg/kg  
LD50/dermal/rat = > 8000 mg/kg  
LC50/inhalation/4h/rat = > 5.06

Sensitisation: May cause sensitisation by skin contact.  
Local effects: Irritating to respiratory system.

#### 12) Ecological Information:

Mancozeb:  
Toxicity to fish and other aquatic fauna: LC50/96h/rainbow trout = 1.9 mg/l  
LC50/96h/bluegill sunfish = 1.63 mg/l  
EC50/48h/daphnia = 1.3 mg/l

Toxicity to algae: EC50/72h/algae = 0.43 mg/l  
Toxicity to birds: LC50/ 10 days/ Mallard duck = > 6400 ppm  
LC50/ 10 days/ Japanese quail = > 3200 ppm

Bioaccumulation: log POW = < 1.49  
Persistence and degradability: According to the results of tests of biodegradability this product is readily biodegradable.

Cymoxanil:  
Toxicity to fish and other aquatic fauna: LC50/96h/rainbow trout = 61 mg/l  
LC50/96h/bluegill sunfish = 29 mg/l  
EC50/48h/daphnia = 27 mg/l

Toxicity to algae: EC50/72h/algae = 0.35 mg/l  
Toxicity to birds: LC50/8 days/mallard duck = > 2250 mg/l  
LC50/8 days/bobwhite quail = > 2250 mg/kg

Bioaccumulation: log POW = 0.66 (pH7); soil K 0.29 - 2.86  
Persistence and degradability: According to the results of tests of biodegradability this product is readily biodegradable.

#### 13) Disposal Considerations:

**Waste Disposal :** 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 waste disposal facility. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility.

**Container Disposal :** Refer to the product label for instructions.

Container Refilling and Disposal:

If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. If containers cannot be recycled, they should be disposed of together with the waste chemical.  
DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.

#### 14) Transportation Information:

**IMO hazardous description:** UN 2588

Class: 9

Packing group: III

Hazard labels: 9

Proper shipping name: 3077 Environmentally hazardous substance, solid, n.o.s.

( contains mancozeb; cymoxanil ) 9, 12(c), ADR

Further Information: For international road transport see ADR, marginal 10010, regarding exempted quantities.

IMO:

Class: 9

UN 3077

Packing group: III

IMDG Page: 9029 EmS: - MFAG: 506

Hazard labels: 9, MARINE POLLUTANT mark

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. ( contains mancozeb, cymoxanil ) ICAO:

Not regulated. Possible optional classification as per IATA "Special Provision A97", described as: Class: 9 Number:

3077 Packing group: III

Hazard labels: 9

Packing instruction (passenger aircraft): 911 kg / No limit Packing

instruction (cargo aircraft): 911 kg / No limit

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. ( contains mancozeb, cymoxanil )

**15) Regulatory Information:**

<b>Contains:</b>	Mancozeb, Cymoxanil
<b>Symbol(s):</b>	Xi – Irritant
	Xn – Harmful
	N – Dangerous for the environment

R-phrase(s):

R37 - Irritating to respiratory system.

R43 - May cause sensitization by skin contact.

R50/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment R63

– Possible risk of harm to the unborn child.

S-phrase(s):

S1/2 - Keep locked up and out of reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 – When using do not eat, drink or smoke.

S22 - Do not breathe dust.

S24 - Avoid contact with the skin.

S35 – This material and its container must be disposed of in a safe way.

S36/37 - Wear suitable protective clothing and gloves.

S46 - If swallowed, seek medical advice immediately and show this container or label.

S57 – Use appropriate container to avoid environmental contamination.

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

**16. Other Information**

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.

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