


Safety Data Sheet

Cymax M WP L7680 (Act 36 of 1947) Namibian Reg. No. N-AR 1538

1) PRODUCT AND COMPANY IDENTIFICATION	
Product name:	CYMAX M WP
Other means of identification:	Cymoxanil, Mancozeb 760 g/kg WP
Chemical Name:	Mancozeb: Manganese ethylenebisdithiocarbamate polymeric complex with zinc salt. Cymoxanil: 1-(2Cyano-2-methoxyiminoacetyl)-3-Ethylurea.
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.
2) HAZARDS IDENTIFICATION	
Classification of the substance/mixture:	Acute Toxicity (Oral) Category 4 Acute Toxicity (Dermal) Category 4 Skin Sensitization Category 1 Reproductive Toxicity Category 2 STOT RE Category 2 Aquatic Acute Category 1 Aquatic Chronic Category 1
Label Elements: Globally Harmonized System, EU (GHS):	<p>Pictograms:</p>  <p>Signal word: Warning</p> <p>Hazard Statements: H302: Harmful if swallowed. H317: May cause an allergic skin reaction. H361d: Suspected of damaging the unborn child. H373: May cause damage to organs through prolonged or repeated exposure. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long-lasting effects.</p> <p>Precautionary Statements: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P262: Do not get in eyes, on skin, or on clothing. P263: Avoid contact during pregnancy or while nursing.</p>

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

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):

R22: Harmful if swallowed.
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-phrases(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.

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)
Cymoxanil	60 g/kg	57966-95-7	261-043-0	Acute Tox. 4 (H302) Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Repr. 2 (H361fd)
Mancozeb	700 g/kg	8018-01-7	616-995-5	Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Repr. 2 (H361d)

4) FIRST AID MEASURES

Description of First-Aid Measures:

Inhalation:

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.

Skin contact:

Wash body and clothes with soap and water. Remove contaminated clothing and footwear.
If a large area is affected seek medical assistance.

Eye contact:


Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.

Ingestion:

<p>Most important symptoms and effects, both acute and delayed:</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>Indication of any immediate medical attention and special treatment needed:</p>	<p>None known.</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>
<p>5) FIRE-FIGHTING MEASURES</p>	
<p>Extinguishing Media:</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.</p>
<p>Unsuitable Extinguishing Media:</p>	<p>Do not use high volume water jet, due to contamination risk.</p>
<p>Specific Hazards arising from the substance/mixture:</p>	<p>Decomposition by contact with water may generate vapours which can be ignited by heat or open flame.</p>
<p>Fire Fighting:</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 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. Cool containers/tanks with spray water.</p>
<p>Protective clothing:</p>	<p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) ACCIDENTAL RELEASE MEASURES</p>	
<p>Personal precautions, protective equipment and emergency procedures:</p>	<p>Avoid contact with skin and eyes. Do not breathe in spray or fumes. For personal protection see Section 8.</p>
<p>Environmental precautions:</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>Methods and material for containment and cleaning up:</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>
<p>7) HANDLING & STORAGE</p>	
<p>Precautions for Safe Handling:</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. Do not contaminate water, food or feed.</p>
<p>Conditions for Safe Storage, including any incompatibilities:</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.			
8) EXPOSURE CONTROL / PERSONAL PROTECTION				
Appropriate Engineering Controls:	It is essential to provide adequate ventilation. Provide for appropriate exhaust ventilation and dust collection at machinery. 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:	Ingredient	CAS#	Limit	Basis
	Cymoxanil	57966-95-7	5 mg/m³	TWA
	Mancozeb	8018-01-7	2 mg/m³	TWA 8hr
PERSONAL PROTECTIVE EQUIPMENT:				
Clothing:	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.			
Gloves:	Employee must wear appropriate chemical-resistant gloves to prevent contact with this substance. Wash thoroughly with soap and water after handling.			
	The use of safety goggles is recommended.			
Eye protection:	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.			
Emergency eye wash:				
9) PHYSICAL & CHEMICAL PROPERTIES				
Form:	Wettable powder			
Colour:	Light yellow			
Odour:	Sulphurous odour			
Solubility:	Water dispersible			
Ph:	5.0 - 7.0			
Odour threshold:	Not available			
Melting point / Freezing point	Not available			
Initial boiling point and boiling range	Not available			
Flash point:	Not applicable			
Evaporation rate:	Not applicable			
Flammability (solid, gas)	Does not sustain combustion			
Upper/ lower flammability or explosive limits:	None			
Vapour pressure:	Not applicable			
Vapour density:	Not applicable			
Relative density:	Not applicable			
Partition coefficient: n-octanol/water	Not available			
Auto-ignition Temperature:	Not available			
Decomposition Temperature:	Not available			
Viscosity:	Not applicable			
10) STABILITY & REACTIVITY				
Reactivity:	No hazardous reactions if stored and handled as indicated.			
Chemical Stability:	No decomposition if stored and applied as directed.			
Possibility of hazardous reactions:	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.			
Conditions to avoid:	Avoid temperatures above 49°C. Overheating causes thermal decomposition. Under severe dusting conditions, this material may form explosive mixtures in the air.			
Incompatible materials:	Acids			

Hazardous decomposition product (s):	Hydrogen sulphide, carbon disulphide, carbon oxides, sulphur oxides, nitrogen oxides.
11) TOXICOLOGICAL INFORMATION	
Acute Toxicity: Oral:	Cymoxanil: LD50 760 mg/kg, rat Mancozeb: LD50 >5000 mg/kg, rat.
Dermal:	Cymoxanil: LD50 >2000 mg/kg, rat Mancozeb: LD50 >10 000 mg/kg, rat.
Inhalation:	Cymoxanil: LC50 >5.06 mg/L, rat (4 h) Mancozeb: LD50 >5.14 mg/L, rat (4 h)
Skin Corrosion/Irritation:	Slight skin irritant, rabbits.
Serious Eye Damage/Irritation:	Not an irritant, rabbits.
Respiratory or Skin Sensitization:	May cause sensitisation by skin contact.
Germ Cell Mutagenicity:	Evidence suggests this substance does not cause genetic damage in animals.
Carcinogenicity:	Did not show carcinogenic effects in animal experiments.
Reproductive Toxicity:	Suspected of damaging the unborn child.
STOT-SE:	No data available.
STOT-RE:	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard:	Irritating to respiratory system.
12) ECOLOGICAL INFORMATION	
<u>Ecotoxicity: Cymoxanil</u> Birds:	LD50 mallard duck > 2250 mg/kg (8 d) LD50 bobwhite quail > 2250 mg/kg (8 d)
Fish:	LC50 rainbow trout = 61 mg/l (96 h) LC50 bluegill sunfish = 29 mg/l (96 h)
Daphnia:	LC50 = 27 mg/l (48 h)
Algae:	EC50 <i>Selenastrum capricornutum</i> = 1.21 mg/l (5 d)
Worms:	LC50 > 2208 mg/kg soil (14 d)
Bees:	Not toxic to bees. LD50 >25 µg/bee (48 h, contact), LC50 > 1000 ppm (48 h, oral)
<u>Ecotoxicity: Mancozeb</u> Birds:	LD50 mallard duck > 5500 mg/kg (10 d) LD50 Japanese quail = 5500 mg/kg (10 d)
Fish:	LC50 rainbow trout = 1.0 mg/l (96 h) LC50 bluegill sunfish > 3.6 mg/l (96 h)
Daphnia:	EC50 = 3.8 mg/l (48 h)
Algae:	EC50 <i>Selenastrum capricornutum</i> = 0.044 mg/l (120 h)
Worms:	LC50 for <i>Eisenia foetida</i> > 1000 mg/kg soil (14 d)
Bees:	LD50 >400 µg/bee (contact), LD50 >209 µg/bee (oral)
Persistence and Degradability:	Cymoxanil: In the field, DT ₅₀ (bare soil) 0.9–9 d. In aquatic studies, DT ₅₀ <1 d. K _{oc} 38–237 Mancozeb: Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism. Soil DT ₅₀ <1 d (ave., 20 °C).
Bio-accumulative Potential:	Does not bio-accumulate.
Mobility in Soil:	Cymoxanil is mobile, adsorption Freundlich K 0.29 to 2.86 in four soil types.
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	
Road Transport ADR / IRD:	UN NUMBER: 2588 UN Proper Shipping name: PESTICIDES, SOLID, TOXIC, N.O.S. (contains Mancozeb, cymoxanil) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1

	Environmental Hazards: Not applicable Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.
Maritime Transport IMDG / IMO:	UN NUMBER: 2588 UN Proper Shipping name: PESTICIDES, SOLID, TOXIC, N.O.S. (contains Mancozeb, cymoxanil) Transport Hazard Class: 6.1 Packaging group: III Labelling no: 6.1 Environmental Hazards: Marine Pollutant Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling. 
Air Transport ICAO / IATA:	Not regulated. Possible optional classification as per IATA "Special Provision A97",
Transport in Bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No transport in bulk according to the IBC Code.
15) REGULATORY INFORMATION	
Safety, health and environmental regulations/legislation specific for the substance/mixture:	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)
Chemical Safety Assessment:	Advice on product handling can be found in sections 7 and 8 of this safety data sheet.
16. OTHER INFORMATION	
<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> <p>Date of issue: 25/06/2010 Date revised: 25/04/2016, 06/01/2021</p> <p>Abbreviations and acronyms:</p> <ol style="list-style-type: none"> 1. CAS number: Chemical Abstracts Service number. 2. CLP: Classification, Labelling, Packaging. 3. LD₅₀: Lethal Dose for 50% of the test population. 4. LC₅₀: Lethal Concentration for 50% of the test population. 5. DT₅₀: 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 <p>Literature References:</p> <ul style="list-style-type: none"> • GHS: www.ccohs.ca/oshanswers/chemicals/ghs.html • ECHA: https://echa.europa.eu/search-chemicals 	