

Document no: Effective date: Revision date (version): Product code: 105VB July 2022 July 2022 (1) FCYMXMZ/VB

SAFETY DATA SHEET

1. CHEMICAL	PRODUCT AND	COMPANY	Causes mild skin irritation.
IDENTIFICATION			May cause an allergic skin reaction.
			Suspected of causing cancer.
Product name:CYMOXAZEB WPOther identifier:Mancozeb + Cymoxanil			May damage fertility or the unborn child.
		Cymoxanil	May cause damage to organs through prolonged of
	760 WP		repeated exposure.
Recommended use: Fungicide			
Restrictions on	use: Agriculture		Label elements:
0	ille Onen Drete stiere		Laber elements.
	illa Crop Protection		
	o. Reg. No.: 1992/00 O Box 10413	12414/01	
	ston Manor, 1630, S	outh Africa	
)11) 396 2233	outin Anica	
)11) 396 4666		
•	ww.villacrop.co.za		
	<u></u>		Circul word: Denser
Emergency telep	hone numbers:		Signal word: Danger
• • •	Spill emergency n	0.	Hazard statements:
(Hazcall24)		27 86 044 4411	H316: Causes mild skin irritation.
(Client: Villa Crop		27 00 044 4411	H317: May cause an allergic skin reaction.
•	ormation Centre +2	7 82 116 8016	H319: Causes serious eye irritation.
		.7 02 440 0340	H351: Suspected of causing cancer.
(Client: Villa Crop Protection)			
•	,	umb ara i	H360: May damage fertility or the unborn child.
Poisoning Emerg	gency telephone nu		H373: May cause damage to organs throug
Poisoning Emerg	gency telephone nu ormation Centre +2	27 82 446 8946	
Poisoning Emerg	gency telephone nu ormation Centre +2		H373: May cause damage to organs throug
Poisoning Emerg Griffon Poison Info Poisons Informatio	gency telephone nu ormation Centre +2 on Centre +2	27 82 446 8946	H373: May cause damage to organs throug prolonged or repeated exposure.
Poisoning Emerg	gency telephone nu ormation Centre +2 on Centre +2	27 82 446 8946	H373: May cause damage to organs throug prolonged or repeated exposure. H400: Very toxic to aquatic life.
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The most important adverse effects: Physiochemical effects: None known Human health effects:

Causes serious eye irritation.

P337+P317: If eye irritation persists: Get medical help.

P391: Collect spillage.

P405: Store locked up.

vi	la [⊗]		
CROP PROTECTION			

SAFETY DATA SHEET P501: Dispose of content/container to suitable landfill in event of any complaints or symptoms, avoid further exposure. IF exposed or concerned, get medical accordance with local regulations. Other hazards: advice. Inhalation: Remove person from contaminated area None known. **Toxicity:** to fresh air and assist breathing as needed. Seek medical attention if irritation occurs. Classification according to GHS: Category 5 Skin: Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently 3. COMPOSITION 1 INFORMATION ON and thoroughly with water and non-abrasive soap. **INGREDIENTS** Obtain medical attention if irritation or rash occurs. Mixture: Eyes: Flush eyes with clean water for at least 15 - 20 Chemical Conc. Classification CAS minutes. Lift evelids to facilitate irrigation. If present. EC 1272/2008 (m/m name remove contact lenses after 5 minutes and continue %) 70 % Skin Seek medical attention if irritation Mancozeb 8018rinsing. 01-7 Sensitisation 1 persists. TC (H317) Ingestion: Seek medical attention or call a poison Carcinogenicity control centre for treatment advice. Do not induce 2 (H351) vomiting unless instructed to do so by a poison control Reproductive centre or doctor. Do not give anything by mouth to an toxicity 1B unconscious person. If the person is alert, rinse mouth (H360D) thoroughly with water. 2 RE STOT Anticipated acute effects: Causes serious eye (H373) irritation. Causes mild skin irritation. May cause an Aquatic Acute 1 allergic skin reaction. (H400) Anticipated delayed effects: Suspected of causing Aquatic Chronic 1 (H410) cancer. May damage fertility or the unborn child. May 57966-6 % Acute Toxicity 4 cause damage to organs through prolonged or Cymoxanil 95-7 (H302) repeated exposure. Skin Most important symptoms / effects: None known. Sensitisation 1 Advice to physician: No specific antidotes are (H317) available. Treat supportively and symptomatically. Reproductive If a large amount has been ingested in the last few hours, 2 toxicity and if copious vomiting has not already occurred, the (H361fd) stomach must be emptied and steps taken to limit STOT RE 2 gastrointestinal absorption. If the patient is fully alert and (H373) nervous system depression is not anticipated, oral Aquatic Acute 1 administration of Syrup of Ipecac is probably the best way (H400) to empty the stomach. Aquatic Chronic 1 (H410) 5. FIRE-FIGHTING MEASURES 68955-< 5 % Skin Irritation 2 Fatty alcohol 20-4 (H315) Suitable Extinguishing Media: Use carbon dioxide sulphonate Eye Damage 1 or dry chemical for small fires and water fog or foam (H318) Aquatic Chronic for large fires. Unsuitable Extinguishing Media: High volume 3 (H412) water jet. Use a water jet only to cool heated

containers.

heat or flame.

Specific hazards: Slight fire hazard when exposed to

explode. Combustion products are toxic and/or irritant.

Dust-air mixtures may ignite or

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with plenty of water. In the



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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. Remain upwind of fire. 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 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 as 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: Contain spilt product by diking area with sand or earth.

Methods and Materials for Clean-up: Contain spilt 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 spilt material back in original container. Do not re-use spilt 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 spilt 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. Do not breathe in spray mist or dust. 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, 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. 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 or polyprop woven bags / 3-ply paper bags.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Mancozeb	2 mg/m ³	8-hr TWA	AEL
	1.5 mg/m ³	12-hr TWA	

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



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exhaust ventilation systems to maintain airborne **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: Unlikely to occur.

Conditions to avoid: Moisture, extreme heat or exposure to flames.

Incompatible materials: Strong oxidizers, strong bases, strong reducing agents and acids.

Hazardous decomposition products: Products of hydrogen sulphide, carbon dioxide, carbon monoxide, nitrogen oxides, sulphur dioxide and carbon disulfide form on heating. 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

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀: (24h) > 12 000 mg/kg (rat) Dermal LD₅₀: > 30 000 mg/kg (rabbit)

Inhalation LC₅₀: (4h) > 5 mg/ ℓ (rat)

Skin Irritation / Corrosion: Causes mild skin irritation.

Eye Damage / Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction

Respiratory Sensitization: Not classified.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: May damage fertility or the unborn child.

Specific target organ toxicity – single exposure: Not classified.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified.

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, page respiratory, protection, should be

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 organic vapours.

Hand Protection: Employees must wear chemically protective impervious gloves to prevent against skin contact.

Eye Protection: Employees must wear chemical safety goggles to prevent against eye contact. Contact lenses are not protective eye devices.

Skin and Body Protection: Employees must wear appropriate protective impervious clothing, rubber 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 grey homogeneous fine wettable powder.

Odour: Chemical odour. Odour threshold: Not available. pH (1% aqueous dilution): 7.5 – 9.5 Melting point: Not available. Freezing Point: Not available. Boiling Point: Not available. Flash Point: Not applicable. Flammability: Not applicable. Upper / lower explosion limits: Dust-air mixtures may explode when in contact with moist. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available.

Density / Relative density: Not applicable.

Solubility: Wettable powder – miscible in water. n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.



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					SAFEITDA	
Chronic Eff	ects	: Not available.			Bobwhite quail	>5620 mg/kg
POTENTIAL ADVERSE EFFECTS:				·	diet	
Ingestion:				Bees:		
-		erious eye irritation.		Mancozeb		
•		e an allergic skin react	ion	LD ₅₀ contact		162 µg/bee
•		on: None known		LD ₅₀ oral		141 µg/bee
Other mon	nau			Cymoxanil		
				LD ₅₀ contac	t	>25 µg/bee
12. ECOLO	GIC	AL INFORMATION		(48 h)		
				Worms:		
This product is very toxic to aquatic life with long			Mancozeb			
lasting effec	ts.			LC ₅₀ (14 d)	Eisenia fetida	>1000 mg/kg
						soil
ECOTOXIC	ITY	DATA:		Cymoxanil		
<u>Fish:</u>				LC ₅₀ (14 d)	Earthworms	>2208 mg/kg
Mancozeb						soil
LC ₅₀ (96 h)		Rainbow trout	0.074 mg/ℓ			
		Bluegill sunfish	0.083 mg/ℓ		NTAL EFFECTS	
Cymoxanil		-	-	Plants:		
LC ₅₀ (96 h)		Rainbow trout	61 mg/ℓ	Mancozeb		
		Bluegill sunfish	29 mg/ <i>l</i>	Extensively	metabolised in p	olants, forming
		Carp	91 mg/ <i>t</i>	ethylenethiour	ea, ethylenethiuran	n monosulfide,
		Sheepshead	>47.5 mg/ℓ	ethylenethirua	m disulfide and sulf	ur as transitory
		minnows	• • • • • • • • • • • • • • • • • • •	intermediates.	Terminal metabolit	es are natural
<u>Daphnia:</u>		miniows		products, espe	ecially those derived fro	om glycine.
Mancozeb				Cymoxanil	,	0,7
EC ₅₀ (48 h)			0.073 mg/ℓ	•	glycine with subseque	ent incorporation
Cymoxanil			0		oducts (proteins and st	•
LC ₅₀ (48 h)			27 mg/ℓ		nd degradability:	,
Algae:			0	Mancozeb	0 ,	
Mancozeb					ded in the environme	nt by hydrolysis.
E _r C ₅₀ (72 h)		Pseudokirchneriella	0.059 mg/ℓ		tolysis and metabolism	
· · · ·		subcapitata	-	(ave., 20 °C).		
Cymoxanil				Cymoxanil		
EC ₅₀ (120 h))	Selenastrum	1.21 mg/ℓ	-	OT₅₀ 0.75–1.6 days (5	soils nH range
		capricornutum			0.8–3.5%). In the field	• •
<u>Birds:</u>					uatic studies, DT_{50} <1 (· · /
Mancozeb					ative potential:	u.
Acute oral L	D ₅₀	Mallard ducks	> 5500 mg/kg	Mancozeb	alive potential.	
(10 d)					od and ranidly avarate	d in animala
		Japanese quail	> 5500 mg/kg	-	ed and rapidly excrete	u ili aliillais.
		English sparrow	> 1290 mg/kg	Cymoxanil		
	~	European starlings	> 2400 mg/kg	-	(pH 5), 0.67 (pH 7). li	-
-	C_{50}	Mallard ducks	>5200 mg/kg	-	absorbed through the	
(8d)		Pobubito quoil	diet		dose was excreted in	the urine.
		Bobwhite quail	>5200 mg/kg diet	Mobility in so	il:	
Cymoxanil			ulet	Mancozeb		
Acute oral LI	م -م	Mallard ducks	> 2250 mg/kg	K _{oc} 998 ml/g (a	ave., 4 soils).	
Acute Ulai LI	J 50	Bobwhite quail	> 2250 mg/kg	Cymoxanil		
Dietary L	C_{50}	Mallard ducks	>5620 mg/kg		ymoxanil is mobile, ad	sorption K _f 0.29–
(8d)	- 50		diet	2.86 in four so	il types.	
()				Other adverse	e effects: Not determi	ned
				•		



13. DISPOSAL CONSIDERATIONS

Document no: Effective date: **Revision date (version):** Product code:

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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 the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a guarter 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.

14. TRANSPORT INFORMATION

UN Number: 3077

Road Transport ADR/IRD: 9 Class: Packaging group: Ш UN Proper Shipping Name: **ENVIRONMENTALLY** HAZARDOUS SUBSTANCE. N.O.S. SOLID. (Mancozeb 700 g/kg + cymoxanil 60 g/kg) Maritime Transport IMDG/IMO: Class: 9 Ш Packaging group: UN Proper Shipping Name: **ENVIRONMENTALLY** HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb 700 g/kg + cymoxanil 60 g/kg) Marine Pollutant (Y): Yes Air Transport IATA/ICAO: Class: 9 Packaging group: Ш UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Mancozeb 700 g/kg + cymoxanil 60 g/kg) Special/Environmental Precautions: None known.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

15. REGULATORY INFORMATION

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

OHSA 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 200g, 250g, 500g, 1 kg, 2 kg, 5 kg and 10 kg plastic containers and 20 kg, 25 kg & 50 kg 3 ply paper/polyprop woven bags & labelled according to South African regulations and guidelines. Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H361: Suspected of damaging fertility or the unborn child.

H412: Harmful to aquatic life with long-lasting effects. 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:	July 2022
Reviewed:	July 2022
Revision no.:	1
Next revision:	July 2027

For detailed information on revisions, contact the Registration holder.

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