

VILLA UNIZEB 750 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: VILLA UNIZEB 750 WDG
Other identifier: Mancozeb 750 WDG
Recommended use: Fungicide
Restrictions on use: Agriculture & small-scale farming

Supplier: Villa Crop Protection (Pty) Ltd
 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:
 EnviroSure +27 31 205 4918
 (Hazcall24) +27 86 044 4411
 (Client: Villa Crop Protection)
 Griffon Poison Information
 Centre: +27 82 446 8946
 (Client: Villa Crop Protection)
Poisoning:
 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		
Dermal	Skin Sens. 1	H317
Eye	Eye Irrit. 2	H319
Specific target organ toxicity – single exposure	STOT SE 3	H335
Reproductive	Repr. 2	H361D
Environment		
Aquatic acute	Aquatic acute 1	H400

The most important adverse effects:

Human health effects:
 May cause an allergic skin reaction (Skin Sens. 1)
 Causes serious eye irritation (Eye irrit. 2)
 Suspected of damaging fertility or the unborn child (Repr. 2)

May cause respiratory irritation (STOT SE 3)

Label elements:



Signal word: Warning

Hazard statements:

H317: May cause an allergic skin reaction.
 H319: Causes serious eye irritation.
 H335: May cause respiratory irritation.
 H361D: Suspected of damaging fertility or the unborn child.
 H400: Very toxic to aquatic life.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing mist, vapours and spray.
 P264: Wash skin and eyes thoroughly after handling.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and chemical safety goggles.
 P302+P352: IF ON SKIN: Wash with plenty of water and soap.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P308+P313: If exposed or concerned: Get medical attention.
 P333+313: If skin irritation or rash occurs: Get medical advice.
 P337+P313: If eye irritation persists: Get medical attention.
 P391: Collect spillage.
 P403+233: Store in a well-ventilated place. Keep container tightly closed.
 P405: Store locked up.
 P501: Dispose of contents/container in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Unclassified
 Classification according to WHO: Group III
 Classification according to GPIC: Unclassified

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture:

Chemical name	CAS	Conc. (m/m %)	Classification EC 1272/2008
Mancozeb TC	8018-01-7	88 %	Skin Sens. 1 (H317) Repr. 2 (H361D) Aquatic Acute 1 (H400)
Sodium alkyl naphthalene sulfonate salt	1322-93-6	< 10 %	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (Inhalation) (H335)

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.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs.

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.

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.**

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: None known.

Anticipated delayed effects: None known.

Most important symptoms / effects: None known.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media: High volume water jet. Use a water jet only to cool heated containers.

Specific hazards:

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 eyes. Do not breathe in spray mist or dust. **Do not breathe in spray mist or vapours.** 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.

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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: Harmful if swallowed. Avoid contact with skin and eyes. 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. Do not store near heat, open flame, sources of ignition or hot surfaces. 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: 3 ply paper bags & plastic containers

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Kaolin	15 mg/m ³	OSHA PEL	"Hazardous Chemical Substances Regulations, 1995" or "www.osha.gov"

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 organic vapours

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

Eye Protection: The use of chemical safety goggles is recommended 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: Yellow to Olive brown, free flowing micro granule.

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Odour: Musty odour.
Odour threshold:
pH (1% aqueous dilution): 6.5 – 7.5
Melting point: Not available.
Freezing Point: 0 °C.
Boiling Point: Not available.
Flash Point: Not applicable
Flammability: Not applicable.
Upper / lower explosion limits: Not applicable
Vapour Pressure (mm Hg): Not available.
Relative Vapour Density: Not available.
Density / Relative density: 0.623 gm/ml.
Solubility: Not available.
n-octanol / water partition coefficient: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Viscosity: Not available.

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: Extreme heat or exposure to flames.
Incompatible materials: Strong oxidizers, strong bases, strong reducing agents.
Hazardous decomposition products: Alcohols, carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:
 Calculated according to GHS
Oral LD₅₀: (24h) > 5000 mg/kg (rat)
Dermal LD₅₀: > 5000 mg/kg (rabbit)
Inhalation LC₅₀: (4h) > 5 mg/l (rat)
Skin Irritation / Corrosion Animal tests showed the product to be non-irritating.
Eye Damage / Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction
Respiratory Sensitization: May cause respiratory irritation.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity – single exposure: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: May cause respiratory irritation.
Ingestion: None known.
Other information: None known

12. ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

ECOTOXICITY DATA:

Active ingredient / inert name

<u>Fish:</u>		
LC ₅₀ (96 h)	Rainbow trout	0.074 mg/l
	Bluegill sunfish	0.083 mg/l
<u>Daphnia:</u>		
EC ₅₀ (48 h)		0.073 mg/l
<u>Algae:</u>		
EC ₅₀ (120 h)	<i>Selenastrum capricornutum</i>	0.044 mg/l
<u>Birds:</u>		
Acute oral LD ₅₀ (10 d)	Mallard ducks	> 5500 mg/kg
	Japanese quail	> 5500 mg/kg
	English sparrow	> 1290 mg/kg
	European starlings	> 2400 mg/kg
Dietary LD ₅₀ (8d)	Mallard ducks	>5200 mg/kg diet
	Bobwhite quail	>5200 mg/kg diet
<u>Bees:</u>		
LD ₅₀ contact		162 µg/bee
LD ₅₀ oral		141 µg/bee
<u>Worms:</u>		
LC ₅₀	<i>Eisenia fetida</i>	>1000 mg/kg

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ENVIRONMENTAL EFFECTS (indicate if this is only for the active ingredient)

Based on information for the active ingredient

Plants: Extensively metabolised in plants, forming ethylenethiourea, ethylenethiuram monosulfide, ethylenethiuram disulfide and sulfur as transitory intermediates. Terminal metabolites are natural products, especially those derived from glycine.

Persistence and degradability: Rapidly degraded in the environment by hydrolysis, oxidation, photolysis and metabolism.

Bio-accumulative potential: Soil DT50 <1 d (ave., 20 °C). Koc 998 ml/g (ave., 4 soils).

Mobility in soil: Not determined.

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. Comply with local legislation applying to waste disposal. The product may be taken to a registered waste disposal site or incineration plant.

Container: 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 minimum of one third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

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. (**Mancozeb** 750 g/kg)

Maritime Transport IMDG/IMO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S. (**Mancozeb** 750 g/kg)

Marine Pollutant (Y):

Air Transport IATA/ICAO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S. (**Mancozeb** 750 g/kg)

Special/Environmental Precautions: None known.

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

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 20g, 50g, 100g, 200g, 250g, 1 kg, 2 kg, 2.5 kg, 5 kg, 6 kg, 10 kg, 20 kg, 25 kg & 50 kg 3 ply paper bags & plastic containers labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H332: Harmful if inhaled.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization.

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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

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For detailed information on revisions, contact the Registration holder.