

VILLA MORTAR 750 WSG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MORTAR 750 WSG
Other identifier: MCPA 750 WSG (acid equivalent)
 (893 g/kg as the potassium salt)
Recommended use: Herbicide
Restrictions on use: Agriculture
Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 801
 Kempton Park, 1620, 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 Emergency telephone numbers:
 Griffon Poison Information Centre +27 82 446 8946
 Poisons Information Centre +27 861 555 777
Villa Crop Protection Emergency number:
National Safety, Health and Environmental Manager:
 +27 63 698 0668

2. HAZARDS IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	H-statements
Health		
Oral	Acute Tox. 4	H302
Dermal	Skin Irrit. 2	H315
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 4	H333
Environment		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 1	H410

The most important adverse effects:
Physiochemical effects:
 None known
Human health effects:
 Causes serious eye damage.

Label elements:



Signal word: Danger.
Hazard statements:
 H302: Harmful if swallowed.
 H315: Causes skin irritation.
 H318: Causes serious eye damage.
 H333: May be harmful if inhaled.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.
Precautionary statements:
 P264: Wash skin and eyes thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and chemical safety goggles.
 P310: Immediately call a POISON CENTRE.
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
 P391: Collect spillage.
 P501: Dispose of contents/container in accordance with local regulations.
Special labelling of certain mixtures:
 None known.
Other hazards:
 None known.
Toxicity:
 Classification according to GHS: Category 4
 Classification according to WHO: Category III
 Classification according to GPIC: Category III

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
MCPA	94-74-6	75%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
CF/AS45	Proprietary	< 10%	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)

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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 persists.

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 to 20 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

Ingestion: Unlikely to occur under occupational conditions. In case of deliberate ingestion, have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Give plenty of water to drink (1 to 2 glasses). Seek medical advice.

Anticipated acute effects:

Harmful if swallowed.
 Causes skin irritation.
 Causes serious eye damage.
 May be harmful if inhaled.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: There is no antidote, and symptomatic treatment should be given. If substantial amounts have been ingested, spontaneous emesis may occur. Limit gastrointestinal absorption by gastric intubation, aspiration and lavage, following placement of a cuffed endotracheal tube. Repeated administration of charcoal at half or more the original dose every 2 to 4 hours may be beneficial.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, dry chemical, water fog or foam.

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

Specific hazards: None known.

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. Keep upwind. 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.

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 to be very toxic to aquatic organisms and causes 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 spilled product.

Methods and Materials for Clean-up: Contain spilled 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 spilled material back in original container. Do not re-use spilled 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 spilled 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 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

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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/bags.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits have been determined for the significant ingredients in this product.

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.

Hand Protection: The use of chemically protective 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: Employee must wear appropriate protective clothing; 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: Brown granules.

Odour: Phenolic.

pH (1% aqueous dilution): 5 to 10.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable to solids.

Flammability: Not available.

Upper/lower explosion limits: Not applicable to solids.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: Not available.

Solubility: Water soluble.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not applicable to solids.

Decomposition temperature: Not available.

Viscosity: Not applicable to solids.

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: None known.

Conditions to Avoid: Extreme heat or exposure to flames; extremely cold temperatures.

Incompatible Materials: Strong acids and oxidizing agents.

Hazardous Decomposition Products: None known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ rat > 1280 mg/kg

Dermal LD₅₀ rat > 5300 mg/kg

Inhalation LC₅₀ rat > 8.4 mg/l

Skin Irritation: Causes skin irritation.

Eye Damage: Causes serious eye damage.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: Not known to cause respiratory sensitization.

Reproductive cell mutagenicity: Not a mutagen.

Carcinogenicity: Not a carcinogen.

Reproductive toxicity: Not a reproductive toxin.

Specific target organ toxicity – single exposure: This product was not flagged as a STOT SE.

Specific target organ toxicity – repeated exposure: This product was not flagged as a STOT RE.

Aspiration hazard: Not flagged as an aspiration hazard.

Chronic Effects (other targets e.g. developmental): Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: May be harmful if inhaled.

Skin contact: Causes skin irritation.

Eye contact: Causes serious eye damage.

Ingestion: Harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

ECOTOXICITY DATA: For Active ingredient MCPA

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Fish:

LC ₅₀ (96 h) Salt solution	Rainbow trout	50 - 560 mg/l
	Bluegill sunfish	>150 mg/l
	Carp	317 mg/l
	Silverside	220 mg/l

Daphnia:

LC ₅₀ (48 h)		>190 mg/l
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Algae:

EC ₅₀	<i>Selenastrum capricornutum</i>	> 392 mg/l
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Other aquatic spp:

LC ₅₀	Pink shrimp	231 mg/l
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Birds:

Acute oral LD ₅₀	Bobwhite quail	377 mg/kg
Sub-acute	Bobwhite quail	
Dietary LC ₅₀ (5 d)	Mallard ducks	> 5620 ppm

Bees:

LD ₅₀ contact		
LD ₅₀ oral		> 200 µg/bee

Worms:

LD ₅₀ (14 d)	<i>Eisenia foetida</i>	325 mg/kg dry soil
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Plants: In winter wheat, MCPA is hydroxylated at the methyl group with formation of 2-hydroxymethyl-4-chlorophenoxyacetic acid. This may be further degraded to the benzoic acid, prior to ring opening.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: In soil, degraded to 4-chloro-2-methylphenol, followed by ring hydroxylation and ring opening. DT₅₀ <7 d after initial lag phase.

Bio-accumulative Potential: In rats, following oral administration, MCPA is rapidly absorbed and excreted almost exclusively in the urine, with only a small proportion in the faeces. Only moderate metabolism occurs, and there is only a small amount of conjugate formation.

Mobility in soil: Duration of residual activity in soil is c. 3-4 mo, following an application rate of 3 kg/ha.

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: 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 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. 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:	
Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally
Hazardous substance solid, N.O.S. (MCPA 750 g/kg/ 893 g/kg as the potassium salt)	
Maritime Transport IMDG/IMO:	
Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally
Hazardous substance solid, N.O.S. (MCPA 750 g/kg/ 893 g/kg as the potassium salt)	
Marine Pollutant (Y/N):	
Air Transport IATA/ICAO:	
Class:	9
Packaging group:	III
UN Proper Shipping Name:	Environmentally
Hazardous substance solid, N.O.S. (MCPA 750 g/kg/ 893 g/kg as the potassium salt)	

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:
 OHS 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 500 gram, 1, 5, 10, 20, 25, 50 and 100 kilogram plastic containers/bags, labelled according to South African regulations and guidelines.
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

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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: August 2017
Reviewed: August 2020
Revision no.: (3)
Next revision date: August 2025

For detailed information on revisions, contact the Registration holder.

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