

SAVIA 500 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SAVIA 500 SC
Other identifier: Metazachlor 500 SC
Recommended use: Herbicide
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 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:
 (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

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. 5	H303
Dermal	Acute Tox. 5	H313
Skin Sensitization	Skin Sens. 1B	H317
Respiratory Sensitization	Resp. Sens. 1A	H334
Carcinogenicity	Carc. 2	H351
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:
 May cause an allergic skin reaction (Skin Sens. 1B).
 May cause allergy or asthma symptoms or breathing difficulties if inhaled (Resp. Sens. 1A).
 Suspected of causing cancer (Carc. 2)

Label elements:



Signal word: Danger.

Hazard statements:
 H303: May be harmful if swallowed.
 H313: May be harmful in contact with skin.
 H317: May cause an allergic skin reaction.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H351: Suspected of causing cancer.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:
 P203: Obtain, read, and follow all safety instructions before use.
 P261: Avoid breathing dust, fumes, mists, gas, vapours, or spray. (respiratory sensitization).
 P272: Contaminated work clothing should not be allowed out of the workplace.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P284: In case of inadequate ventilation wear respiratory protection.
 P301+P317: IF SWALLOWED: Get medical help.
 P302+P317: IF ON SKIN: Get medical help.
 P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
 P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P318: IF exposed or concerned, get medical advice.
 P333+P317: If skin irritation or rash occurs: Get medical help.
 P342+P316: If experiencing respiratory symptoms: Get emergency medical help immediately.
 P391: Collect spillage.
 P405: Store locked up.
 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 5.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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Substance/Mixture: Mixture.
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Metazachlor TC	67129-08-2	50 %	Skin Sens. 1B (H317) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Lignin calcium sulphate	8061-52-7	<20%	Aquatic Chronic 4 (H413)
Ethylene glycol	107-21-1	<10%	Acute Tox. 4 * (H302)
Paraformaldehyde	30525-89-4	<5%	Flam. Sol. 2 (H228) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) Acute Tox. 4 (H332) Resp. Sens. 1 (H334)

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: May cause an allergic skin reaction, suspected of causing cancer and may cause allergy or asthma symptoms or breathing difficulties if inhaled.
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: 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. 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.

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. Immediately consult a doctor.

Inhalation: Remove person from contaminated area to fresh air and assist breathing if 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.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. 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 to be 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 spilled product by diking area with sand or earth.

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Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, vermiculite, earth, or other appropriate material. Vacuum, scoop, or sweep up material and place the material into a clean, dry, sealable container. 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. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. See section 13 for disposal considerations.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Avoid contact with eyes and skin. 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.

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 impervious gloves is recommended to prevent against skin contact.

Eye Protection: The use 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 impervious clothing e.g., coveralls, rubber boots, hat and equipment to prevent repeated or prolonged skin contact with this product. Do not wear leather clothing.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this substance; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white suspension liquid.

Odour: Faint odour (aromatic).

pH (1% aqueous dilution): 5.0 to 8.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available. 100°C.

Flash Point: Not available.

Flammability: Not flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density/Relative density: 1.190 g/ml.

Solubility: Not available. Miscible in water.

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.

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Reactivity: None known.
Possibility of Hazardous Reactions: Will not occur.
Conditions to Avoid: Avoid extreme heat and fire.
Incompatible Materials: Oxidising agents, acid and alkalis.
Hazardous Decomposition Products: Chloride compounds and nitrogen oxides.

(LD₅₀, µg/bee)
Worms:
 LC₅₀ (14 d) *Eisenia fetida* >1000 mg/kg soil.

11. TOXICOLOGICAL INFORMATION

Calculated according to GHS.
Oral LD₅₀ (24 h) rats >4700 mg/kg.
Dermal LD₅₀ (24 h) rats/rabbits >4300 mg/kg.
Inhalation LC₅₀ (4 h) rats >54.4 mg/ℓ.
Skin Irritation/Corrosion: Not classified.
Eye Damage/Irritation: Not classified.
Skin Sensitization: May cause an allergic skin reaction.
Respiratory Sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Reproductive cell mutagenicity: Not classified.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Not classified.
Specific target organ toxicity – single exposure: Not classified.
Specific target organ toxicity – repeated exposure: Not classified.
Aspiration hazard: Not classified.
Chronic Effects: None known.
POTENTIAL ADVERSE EFFECTS: None known.

Plants: After pre-emergence application, the 14C-phenyl labelled a.i. was taken up by oilseed rape plants (0.55 mg/kg 36 days after sowing and 0.43 mg/kg, day 78). In rape straw, the residue increased to 1.25 mg/kg (day 97) as the result of the loss of water in drying. The residues in rape seed were very low (0.01 mg/kg). Metazachlor was extensively metabolised; the intact a.i. was no longer detectable at the time of harvesting. About 60% of the residue taken up by the plants still contained the unchanged 2,6-dimethylaniline moiety, but it was not possible to identify individual metabolites.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Laboratory and field trials indicate that microbial degradation in aerobic soil is rapid; DT₅₀ (lab.) 6–25 d. In field trials, DT₅₀ 3–21 d, DT₉₀ 9–71 d. Metabolism is mainly by conjugation with glutathione and subsequent degradation; the main metabolites (≥10%) were metazachlor oxalic acid and metazachlor sulfonic acid (COCH₂Cl side-chain replaced, respectively, by COCO₂H and COCH₂SO₃H). Lysimeter and outdoor studies indicate that metazachlor is rapidly degraded in the soil, does not accumulate, and that there is no detectable displacement of the a.i. or its metabolites into deeper layers of the soil (a depth of >30 cm). These findings are supported by the results from raw water monitoring programmes.

Bio-accumulative Potential: Not determined.

Mobility in soil: Not determined.

Other adverse effects: Not determined.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

ECOTOXICITY DATA:

Fish:
 LC₅₀ (96 h) Rainbow trout 8.5 mg/ℓ.

Daphnia:
 LC₅₀ (48 h) 33.7 mg/ℓ.

Algae:
 E_rC₅₀ (72 h) *Pseudokirchneriella subcapitata* 0.032 mg/ℓ.

Birds:
 Acute oral LD₅₀ Bobwhite quail and Japanese quail >2000 mg/kg

LC₅₀ Bobwhite quail and mallard ducks >5000 mg/kg diet.

Bees: contact >100 µg/bee.

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: TRIPLE RINSE THE EMPTY CONTAINER AS FOLLOWS: Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank. Puncture the triple rinsed container and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate

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the container to any other parties that may use it as a container for food or beverages.

14. TRANSPORT INFORMATION

UN Number: 3082
Road Transport ADR/IRD:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Metazachlor 500 g/l)

Maritime Transport IMDG/IMO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Metazachlor 500 g/l)

Marine Pollutant (Y/N): YES
Air transport IATA/ICAO:
 Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S.
(Metazachlor 500 g/l)

Special/Environmental Precautions: Wedge drums tightly to avoid movement.
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:
 OSHA 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 1, 5, 10, 20 & 25 litres plastic containers, labelled according to South African regulations and guidelines.
Additional H statements (formulants):
H228: Flammable solid.

H302: Harmful if swallowed.
H315: Causes skin irritation.
H318: Causes serious eye damage.
H332: Harmful if inhaled.
H413: May cause long lasting harmful effects to aquatic life.

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.