

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 - Farming

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
**65 Botes Road, Glen Marais,
Kempton Park, 1619, 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 Toxicity 5	H303
Dermal	Acute Toxicity 5 Skin Sens. 1B	H313 H317
Carcinogenicity	Carc. 2	H351
Environment		
Aquatic acute	Aquatic acute 1	H400
Aquatic acute	Aquatic chronic 1	H410

The most important adverse effects:
Physiochemical effects: None known.
Human health effects:
May be harmful if swallowed (Acute Toxicity 5).
May be harmful in contact with skin (Acute Toxicity 5).
May cause an allergic skin reaction (Skin Sens. 1B).
Suspected of causing cancer (Canc. 2).

Label elements:



Signal word: Warning

Hazard statements:

H303: May be harmful if swallowed.
H313: May be harmful in contact with skin.
H317: May cause an allergic skin reaction.
H351: Suspected of causing cancer.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing dust, mists, vapours or spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P273: Avoid release to the environment.
P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
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.
P318: IF exposed or concerned, get medical advice.
P321: Specific treatment (see First Aid Section).
P333+P317: If skin irritation or rash occurs: Get medical help.
P362+P364: Take off contaminated clothing and wash it before reuse.
P391: Collect spillage.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Metazachlor	67129-08-2	42.02	Skin Sens. 1B (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)

SAVIA 500 SC

SAFETY DATA SHEET

			Aquatic Chronic 1 (H410)
Lignin calcium sulphonate	8061-52-7	<15%	Aquatic Chronic 4 (H413)
Ethylene glycol	107-21-1	<10%	Acute Tox. 4 * (H302)
1,2-benzisothiazolin-3-one	2634-33-5	<3%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

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 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: May be harmful if swallowed. May be harmful in contact with skin. May cause an allergic skin reaction.

Anticipated delayed effects: Suspected of causing cancer.

Most important symptoms / effects: Suspected of causing cancer.

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. 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 breathing dust, mists, vapours or spray. May be harmful if swallowed. May be harmful in contact with skin. May cause an allergic skin reaction. 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 spilled product by diking area with sand or earth.

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

SAVIA 500 SC

SAFETY DATA SHEET

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:

May be harmful if swallowed. May be harmful in contact with skin. May cause an allergic skin reaction. Suspected of causing cancer. Ensure adequate ventilation during handling and use. Do not inhale spray mist or vapours. 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. 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: Fluorinated plastic containers.

8. EXPOSURE CONTROL 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 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: White to off-white suspension liquid.

Odour: Not available.

Odour threshold: Not available.

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

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

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: 1.19

Solubility: Dispersible.

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.

SAVIA 500 SC

SAFETY DATA SHEET

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) > 4700 mg/kg (rat)

Dermal LD₅₀ > 4300 mg/kg (rabbit)

Inhalation LC₅₀ (4h) > 59.52 mg/l (rat)

Skin Irritation / Corrosion: May be harmful in contact with skin.

Eye Damage / Irritation: Does not cause eye damage / irritation.

Skin Sensitization: May cause an allergic skin reaction.

Respiratory Sensitization: Does not cause respiratory sensitization.

Reproductive cell mutagenicity: Does not cause reproductive cell mutagenicity.

Carcinogenicity: Suspected to cause cancer.

Reproductive toxicity: Does not cause reproductive.

Specific target organ toxicity – single exposure: Does not cause specific target organ toxicity – single exposure.

Specific target organ toxicity – repeated exposure: Does not cause specific target organ toxicity – repeated exposure.

Aspiration hazard: Does not cause aspiration hazard.

Chronic Effects: Suspected to cause cancer.

POTENTIAL ADVERSE EFFECTS:

Inhalation: No inhalation adverse effects calculated.

Ingestion: May be harmful if swallowed.

Other information: None known.

12. ECOLOGICAL INFORMATION

This product is expected to be very toxic to aquatic organisms with long lasting effects.

ECOTOXICITY DATA:

Active ingredient: Metazachlor

ECOTOXICOLOGY:

Fish:

LC₅₀ (96 h) Rainbow trout 8.5 mg/l

Daphnia:

EC₅₀ (48 h) 33.7 mg/l

Algae:

EC₅₀ (72 h) *Pseudokirchneriella subcapitata* 0.032 mg/l

Birds:

Acute oral LD₅₀ Bobwhite quail >2000 mg/kg

Japanese quail

Dietary LD₅₀ Bobwhite quail >5000 mg/kg

Mallard ducks diet

Bees:

LD₅₀ contact >100 µg/bee

LD₅₀ oral >72 µg/bee

Worms:

LC₅₀ (14 d) *Eisenia fetida* >1000 mg/kg

ENVIRONMENTAL EFFECTS

Based on information for the active ingredient: Metazachlor

Animals: After oral administration in rats, **Metazachlor** was well resorbed and metabolised and eliminated mainly and rapidly via the kidneys as polar conjugates (mainly glucuronides).

Plants: In plants, **Metazachlor** was extensively metabolised. Metabolises extensively by chlorine displacement and by oxidation, to form either oxalic acids or sulfur-containing products (sugar beets, maize, cabbage).

Persistence and degradability: **Metazachlor** degrades by microbial action primarily through glutathione conjugation and subsequent reactions; major products include the corresponding oxanilic acid and sulfonic acids, formed by displacement of the chlorine with oxygen and sulfur species, respectively.

Bio-accumulative potential: Not determined.

Mobility in soil: Soil (DT₅₀) is 6–25 d (lab, aerobic), 3–21 d (field). Soil Adsorption Coefficients (ml/g) is K_f 0.37–3.8; K_{oc} 53.8–220. Hydrolytic Stability (DT₅₀) is stable (pH 5, 7, 9) (22 °C). Photolytic Stability (DT₅₀) is stable.

Other adverse effects: Not determined (environmental fate, ozone potential, endocrine disruption potential, global warming potential).

13. DISPOSAL CONSIDERATION

Pesticide disposal: Open dumping or burning of this pesticide is prohibited. Waste resulting from the use of this product cannot be reused or reprocessed. Never pour untreated waste or surplus products 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.

SAVIA 500 SC

SAFETY DATA SHEET

Container disposal: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

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 (3) 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 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 / ORD:
 Class: 9
 Packing group: III
 Shipping name: Environmentally hazardous substance, liquid, N.O.S. (Metazachlor 500 g/l)

Maritime Transport IMDG/IMO:
 Class: 9
 Packing group: III
 Shipping name: Environmentally hazardous substance, liquid, N.O.S. (Metazachlor 500 g/l)

Marine pollutant (Y/N): Yes

Air Transport ICAO/IATA:
 Class: 9
 Packing group: III
 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: Refer to MARPOL 73/78, Annex II and the IBC code.

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 fluorinated plastic containers and labelled according to the South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H413: May cause long lasting harmful effects to aquatic life.

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 and storage 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.