

VILLA PLATINUM 960 EC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: METOLACHLOR 960 EC
Other identifier: Metolachlor 960 g/l
Recommended use: Herbicide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd
 Co. Reg. No.: 1992/002474/07
 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 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 Toxicity 5 | H303 |
| Dermal | Skin Irritation 3 Skin Sensitization 1 | H316 H317 |
| Eye | Eye damage 1 | H318 |
| Inhalation | Acute Toxicity 3 | H331 |
| 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:

H303: May be harmful if swallowed.
 H316: Causes mild skin irritation.
 H317: May cause an allergic skin reaction.
 H318: Causes serious eye damage.
 H331: Toxic if inhaled.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P261: Avoid breathing mists, vapours or spray.
 P271: Use only outdoors or in a well-ventilated area.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 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.
 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.
 P310: Immediately call a POISON CENTRE.
 P333+P313: If skin irritation or rash occurs: Get medical advice.
 P391: Collect spillage.
 P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 3
 Classification according to WHO: Group II
 Classification according to GPIC: Category III

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

VILLA PLATINUM 960 EC

SAFETY DATA SHEET

Composition:

| Chemical name | CAS | Conc. (m/v %) | Classification EC 1272/2008 |
|---------------------|------------|---------------|--|
| Metolachlor TC | 51218-45-2 | 96 % | Skin sensitization 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) |
| Phenylsulphonate | 26264-06-2 | < 10% | Acute toxicity 4 (H302) Skin Irritation 2 (H315) Eye damage 1 (H318) Aquatic Chronic 4 (H413) |
| Ethoxylated phenols | 99734-09-5 | < 10% | Aquatic Chronic 3 (H412) |

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 or if patient feels unwell after inhalation.**

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 immediately.**

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.
- Causes mild skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye damage.
- Toxic if inhaled.

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: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock,

but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog.

Unsuitable Extinguishing Media: Water.

Specific hazards: Hazards or hazardous products arising from combustion.

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 / fumes / 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 will 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 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.

VILLA PLATINUM 960 EC

SAFETY DATA SHEET

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: May be harmful if swallowed. Avoid contact with skin and eyes. 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. 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 fluorinated 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: Use a NIOSH approved, air-purifying respirator with cartridges / canisters approved for organic vapours. **This product is toxic if inhaled.**

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. **This product causes serious eye damage.** 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. 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 eye wash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to light tan, clear emulsifiable liquid.

Odour: Sweet odour.

Odour threshold: Not available.

pH (1% aqueous dilution): 5.3.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: 100 °C / 0.001 mm Hg.

Flash Point: > 100 °C.

Flammability: Not flammable.

Upper / lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 1.107 g/cm³ at 20 °C.

Solubility: Emulsifies in water.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: 4,2 mPa at 25 °C.

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: (For GHS and conforms to WHO)

Oral LD₅₀ (24h) > 1100mg/kg (rat)

Dermal LD₅₀ > 5000 mg/kg (rabbit)

Inhalation LC₅₀ (4h) > 2.24 mg/l (rat)

Skin Irritation / Corrosion: Causes mild skin irritation.

Eye Damage / Irritation: Causes serious eye damage.

VILLA PLATINUM 960 EC

SAFETY DATA SHEET

Skin Sensitization: May cause an allergic skin reaction.
Respiratory Sensitization: Not available.
Reproductive cell mutagenicity: Not available.
Carcinogenicity: Not available.
Reproductive toxicity: Not available.
Specific target organ toxicity – single exposure: Not available.
Specific target organ toxicity – repeated exposure: Not available.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: Not available.
Ingestion: Not available.

12. ECOLOGICAL INFORMATION

This product is very toxic to aquatic organisms.

ECOTOXICITY DATA:

Metolachlor (Active ingredient)

Fish:

| | | |
|-------------------------|------------------|----------|
| LC ₅₀ (96 h) | Rainbow trout | 3.9 mg/l |
| | Bluegill sunfish | 10 mg/l |
| | Carp | 4.9 mg/l |

Daphnia:

| | | |
|-------------------------|--|---------|
| LC ₅₀ (48 h) | | 25 mg/l |
|-------------------------|--|---------|

Algae:

| | | |
|-------------------------|-------------|----------|
| EC ₅₀ (72 h) | Green algae | 0.1 mg/l |
|-------------------------|-------------|----------|

Birds:

| | | |
|-------------------------------|----------------|-------------------|
| Acute oral LD ₅₀ | Mallard ducks | >2150 mg/kg |
| | Bobwhite quail | >2150 mg/kg |
| Dietary LC ₅₀ (8d) | Mallard ducks | >10000 mg/kg diet |
| | Bobwhite quail | >10000 mg/kg diet |

Bees:

| | |
|--------------------------|-------------|
| LD ₅₀ contact | >110 µg/bee |
| LD ₅₀ oral | >110 µg/bee |

Worms:

| | |
|------------------------|----------------|
| LC ₅₀ (14d) | 140 mg/kg soil |
|------------------------|----------------|

ENVIRONMENTAL EFFECTS

Based on information for the active ingredient

Major aerobic metabolites are derivatives of oxanilic and sulfonic acids.

Plants: Metabolism involves natural product conjugation of the chloroacetyl group, and hydrolysis and sugar conjugation at the ether group. Final metabolites are polar, water-soluble, and non-volatile.

Persistence and degradability: DT₅₀ in soil c. 20 d (field).

Bio-accumulative potential: Not determined.

Mobility in soil: K_{oc} 121-309.

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. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a 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: 2902

Road Transport ADR / ORD:

| | |
|--------------------------|--|
| Class: | 6.1 |
| Packaging group: | III |
| UN Proper Shipping Name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (Metolachlor 960 g/l) |

Maritime Transport IMDG / IMO:

| | |
|--------------------------|--|
| Class: | 6.1 |
| Packaging group: | III |
| UN Proper Shipping Name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (Metolachlor 960 g/l) |

Marine pollutant (Y/N): Yes

Air Transport IATA / ICAO:

| | |
|--------------------------|--|
| Class: | 6.1 |
| Packaging group: | III |
| UN Proper Shipping Name: | PESTICIDE, LIQUID, TOXIC, N.O.S. (Metolachlor 960 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:

OHSA 1993 Regulations for Hazardous Chemical Substances.

Relevant information regarding restrictions: None.

VILLA PLATINUM 960 EC

SAFETY DATA SHEET

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 and 25 litres fluorinated plastic containers labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H315: Causes skin irritation.

H412: Harmful to aquatic life with long lasting effects.

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, 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: January 2020

Reviewed: January 2020

Revision no.: (1)

Next revision date: January 2025

For detailed information on revisions, contact the Registration holder.