

# METOLACHLOR 800 EC

Document no:081VMEffective Date:December 2003Revision date (version):July 2022 (6)Product Code:HMET800/MU

## SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: METOLACHLOR 800 EC
Other identifier: Metolachlor 800 EC

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. 4	H302			
Dermal	Skin Irrit. 2	H315			
	Skin Sens. 1	H317			
Eye	Eye Dam. 1	H318			
Inhalation	Acute Tox. 4	H332			
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:

Harmful if swallowed or inhaled. (Acute Tox. 4)

Causes skin irritation. (Skin Irrit. 2)

May cause an allergic reaction. (Skin Sens. 1) Causes serious eye damage. (Eye Dam. 1)

#### Label elements:



**Signal word:** Danger. **Hazard statements:** 

H302: Harmful if swallowed. H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H318: Causes serious eye damage.

H332: Harmful if inhaled. H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:** 

P261: Avoid breathing dust, fumes, mists, gas, vapours or spray.

P264+P265: Wash hands and face thoroughly after handling. Do not touch eyes.

P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area.

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.

P301+P317: IF SWALLOWED: 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.

P305+P354+P338: IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330: Rinse mouth.

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.

P501: Dispose of content/container to suitable landfill in accordance with local regulations.

## Other hazards:

None known.

## Toxicity:

Classification according to GHS: Category 4

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Metolachlor	51218-45-2	77.38 %	Skin sensitization 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Dichlormid	37764-25- 3	< 10%	Skin Irrit. 2 (H315)
Phenylsulphonate	26264-06-2	< 10%	Acute toxicity 4



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			(H302) Skin Irritation 2 (H315) Eye damage 1 (H318) Aquatic Chronic 4 (H413)
Ethoxylated phenols	99734-09-5	< 10%	Aquatic Chronic 3 (H412)
Xylene	1330-20-7	< 10%	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Acute Tox. 4 (H332)

already developed, follow the charcoal administration in 4 hours with sodium sulphate catharsis.

5. FIRE-FIGHTING MEASURES

charcoal in 150 to 300 mℓ water. If diarrhoea has not

**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.

#### 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: Do not induce vomiting. Remove by gastric lavage and catharsis. Maintain blood pressure and airway. Give oxygen if respiration is depressed. Do not perform gastric lavage if victim is unconscious. Get medical attention immediately. Administration of gastric lavage or oxygen should be performed by qualified medical personnel. Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

#### Anticipated acute effects:

Harmful if swallowed.

Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye damage.

Harmful if inhaled.

Anticipated delayed effects: None known.

**Most important symptoms** *I* **effects:** Irritant effects on skin and mucous membrane are the most common reactions. Large ingestions can cause nausea, vomiting, abdominal distress and diarrhoea.

Advice to physician: There is no specific antidote for the organonitrogen compounds. Keep patient under observation and treat symptomatically as indicated by his/her condition.

Ingestion of less than 10 mg per kg b.w., are probably treated best by administering 30 to 60 g activated

#### **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



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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

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.

#### 7. HANDLING AND STORAGE

### Handling:

Storage:

considerations.

**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.

suitable detergent. See section 13 for disposal

**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.

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, airpurifying respirator with cartridges / canisters approved for organic vapours. **This product is toxic if inhaled.** 

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless to light tan, clear emulsifiable

liquid.

Odour: Sweet odour.

Odour threshold: Not available. pH (1% aqueous dilution): 5.1 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: 4,2 mPa @ 25°C. Relative Vapour Density: Not available.

Density / Relative density: 1,084 g/cm<sup>3</sup> at 20 °C.

**Solubility:** 488 mg/ $\ell$  in water @ 25 °C.

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.



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#### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:** 

Calculated according to GHS

**Oral LD**<sub>50</sub> (24h) > 1100 mg/kg (rat)

**Dermal LD**<sub>50</sub> > 5000 mg/kg (rabbit)

Inhalation LC<sub>50</sub> (4h) > 1.8 mg/ $\ell$  (rat)

Skin Irritation / Corrosion: Causes mild skin irritation. Eye Damage / Irritation: Causes serious eye damage. **Skin Sensitization:** May cause an allergic skin reaction.

Respiratory Sensitization: Not classified. Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified. 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: Not classified. **POTENTIAL ADVERSE EFFECTS:** 

Inhalation: Harmful if inhaled. Ingestion: Harmful if swallowed.

Eye contact: Causes serious eye damage.

Skin contact: Causes skin irritation.

#### 12. ECOLOGICAL INFORMATION

This product is considered a marine pollutant.

### **ECOTOXICITY DATA:**

**Metolachlor (Active ingredient)** 

Fish:

LC<sub>50</sub> (96 h) Rainbow trout 3.9 mg/ℓ Bluegill sunfish 10 mg/ℓ 4.9 mg/ℓ

Carp

Daphnia: LC<sub>50</sub> (48 h) 25 mg/ℓ

Algae:

EC<sub>50</sub> (72 h) Green algae 0.1 mg/ℓ

Birds:

Acute oral LD<sub>50</sub> Mallard ducks >2150 mg/kg Bobwhite quail >2150 mg/kg

Mallard ducks >10000 mg/kg Dietary LC<sub>50</sub> (8d) diet

> Bobwhite quail >10000 mg/kg

diet

Bees:

LD<sub>50</sub> contact >110 µg/bee LD<sub>50</sub> oral >110 µg/bee

Worms:

LC<sub>50</sub> (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: DT<sub>50</sub> in soil c. 20 d

Bio-accumulative potential: Not determined.

Mobility in soil: K<sub>oc</sub> 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. 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 guarter 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. Observe all labelled safeguards until container is destroyed.

## 14. TRANSPORT INFORMATION

**UN Number:** 3082 Road Transport ADR / ORD:

Class: Packaging group: Ш

**UN Proper Shipping Name: ENVIRONMENTALLY** 

**HAZARDOUS** 

SUBSTANCE, LIQUID, N.O.S. (Metolachlor 800

g/l)

**Maritime Transport IMDG / IMO:** Class: 9

Packaging group:

UN Proper Shipping Name: **ENVIRONMENTALLY** 

**HAZARDOUS** 

SUBSTANCE, LIQUID, N.O.S. (Metolachlor 800

g/l)



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Marine pollutant (Y/N): Yes Air Transport IATA / ICAO:

Class: 9 Packaging group: Ш

**UN Proper Shipping Name: ENVIRONMENTALLY** 

**HAZARDOUS** 

SUBSTANCE, LIQUID, N.O.S. (Metolachlor 800

q/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. **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:

H226: H312:

**H412:** Harmful to aquatic life with long lasting effects.

H413: May cause long lasting harmful effects to aquatic

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization. IMDG: International Maritime Dangerous Goods

**IMO:** International Maritime Organization.

**LD**<sub>50</sub> 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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Next revision date: July 2027

For detailed information on revisions, contact the Registration holder.