

CANTRON® 480 SC

Document no: 214VM

Effective date: July 2018

Revision date (version): May 2022 (1)

Product Code: HMESOTRI480SC/VM

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CANTRON® 480 SC Other identifier: Mesotrione 480 SC

Restrictions on use: Herbicide Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.

Co. Reg. No.: 1992/002474/07

PO Box 10413

Aston Manor, 1630, South Africa

 Telephone:
 (011) 3962233

 Fax:
 (011) 3964666

 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	H-statements			
	categories				
Health					
Dermal	Acute Toxicity 5	H313			
Reproductive	Reproductive	H361D			
toxicity	Toxicity 2				
Specific target		H373			
organ toxicity -	STOT RE 2				
repeated	STOTICE				
exposure					
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 be harmful in contact with skin.

Suspected of damaging fertility or the unborn child.

May cause damage to organs (eyes and nervous system).

Label elements:





Signal word: Warning.

Hazard statements:

H313: May be harmful in contact with skin.

H361D: Suspected of damaging fertility or the unborn

child.

H373: May cause damage to organs (eyes and nervous

system).

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

P260: Do not breathe dust, fume, gas, mist, vapours and

spray.

P273: Avoid release into the environment.

P280: Wear impervious rubber gloves and boots,

protective clothing and chemical safety goggles. P302+P317: IF ON SKIN: Get medical help.

P318: IF exposed or concerned, get medical advice.

P319: Get medical help if you feel unwell.

P391: Collect spillage. P405: Store locked up.

P501: Dispose of contents/container to suitable landfill 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

Substance/Mixture: Mixture.

Composition:

Chemical	CAS	Conc.	Classification
Name		(m/v %)	EC 1272/2008
Mesotrione	104206-82-8	48 %	Specific target organ toxicity – repeated exposure 2 (H373) Reproductive Toxicity 2



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			(H361D) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Mono Ethylene Glycol	107-21-1	<6 %	Acute Toxicity 4 (H302)
Ethoxylated Isodecyl Alcohol	78330-20-8	<5 %	Acute Toxicity 4 (H302) Eye Damage 1 (H318)
Proxel GXL	2634-33-5	<5 %	Acute Toxicity 4 (H302) Skin Irritation 2 (H315) Eye Damage 1 (H318) Skin Sensitisation 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.

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.

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: None known.

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: 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:

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 eyes. Do not breathe in spray mist or dust. 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 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 skin and eyes. Ensure adequate ventilation during handling and use. Do not handle broken packages without



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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. 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, airpurifying respirator with cartridges / canisters approved for organic vapours.

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: Employees 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: Off-white, suspension concentrated liquid.

Odour: Typical pesticide smell.

pH (1% aqueous dilution): 4.6 to 5.0

Melting point: Not available.
Freezing Point: Not available.
Boiling Point: Not available.
Flash Point: Not available.
Flammability: Non-flammable.

Upper/lower explosion limits: Not explosive. Vapour Pressure (mm Hg): Not available. Relative Vapour Density: Not available. Density/Relative density: 1.121 g/mℓ.

Solubility: Soluble 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.

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: Formulated product.

Calculated according to GHS.
Oral LD₅₀ (24 h) rat: >80000 mg/kg
Dermal LD₅₀ (24 h) rat: >4430 mg/kg.
Inhalation LC₅₀ (4 h) rat: >10 mg/ ℓ .
Skin Irritation/Corrosion: Not classified.
Eye Damage/Irritation: Not classified.
Skin Sensitization: Not classified.
Respiratory Sensitization: Not classified.
Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Suspected of damaging fertility or

the unborn child.



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Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity - repeated exposure: May cause damage to organs (eyes and nervous system).

Aspiration hazard: Not classified. Chronic Effects: Not classified.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Not classified. Eye contact: Not classified. **Skin contact:** Not classified. Ingestion: Not classified.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA: Active ingredient: Mesotrione.

Fish:

LC₅₀ (96 h) Bluegill sunfish & >120 mg/e.

rainbow trout

Common carp >97.1 mg/ℓ.

Daphnia:

LC₅₀ >900 mg/ℓ.

(48 h, static)

Pseudokirchneriella Algae: 3.5 mg/e.

E_bC₅₀ (120 h) subcapitata

Birds:

Acute oral LD₅₀ Bobwhite quail >2000 mg/kg.

Bobwhite quail & Dietary LC₅₀ >5200 mg/kg.

mallard ducks

Bees: LD_{50}

Oral >11 ug/bee.

>100 ug/bee. Contact

Worms:

LD₅₀ (14 d) Eisenia fetida >2000 mg/kg.

Other aquatic

spp.

EC₅₀ (14 d) Lemna gibba 0.0077 mg/l.

Plants: Key metabolites in animals, plants and soil include MNBA [4-(methylsulfonyl)-2-nitrobenzoic acid] and AMBA [2-amino-4-(methylsulfonyl)benzoic acid].

ENVIRONMENTAL EFFECTS:

Animal: Extensively absorbed (c. 70% in 72 h), widely distributed and excreted (up to 70% in 72 h), mainly via urine. Limited metabolism occurs, by hydroxylation.

Persistence and degradability: In aerobic soil, dissipates rapidly, mainly due to microbial activity, and is extensively mineralised (38%-81% after 120 d).

Bio-accumulative Potential: Geomean DT₅₀ (lab, aerobic) 12.7 d (3.2-50, first order, 22 soils). DT₅₀ (lab, anaerobic) 4-14 d (first order, 1 soil); DT₉₀ 12 d; DT₅₀ (lab. aerobic) 6-27 d (17 soils); DT₉₀ 20-89 d. Soil photolysis c 13-29 d. In the field, rapidly dissipated with a median DT₅₀ (field) 4 d (2-14 d, 6 first order, 24 sites); Degradation is faster at higher pH values. Adsorption of mesotrione is inversely correlated with pH and directly with soil organic carbon. KF_{oc} 19-170 (8 soils, pH 5.1-8.2; o.c. 0.53-3.31%); K_{oc} 29–390, K_{d} 0.2–5.2 (31 soils, pH 4.6–8.0, o.c. 0.58-2.46%); correlated inversely with pH and directly with soil organic carbon.

Mobility in soil: Not determined. 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 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. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: 3082

Road Transport ADR/IRD:

Class: 9 Packaging group: Ш

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Mesotrione 480 g/c)

Maritime Transport IMDG/IMO:

Class: Packaging group: Ш

UN Proper Shipping Name: Environmentally hazardous

substance, liquid, N.O.S. (Mesotrione 480 g/l)

Marine Pollutant (Y/N): YES



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Air Transport IATA/ICAO:

Class: 9 Packaging group: III

UN Proper Shipping Name: Environmentally hazardous

substance, liquid, N.O.S. (Mesotrione 480 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:

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

Additional H statements (formulants):

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

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

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.

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