

CYCLONE 250 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CYCLONE 250 SC
Other identifier: Sulcotrione 250 SC
Recommended use: Herbicide
Restrictions on use: Agriculture

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

65 Botes Road, Glen Marais,
 Kempton Park, 1619,

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-statement
Health		
Skin Sensitization	Skin Sens. 1A	H317
Reproductive Toxicity	Repr. 2	H361
Specific Target Organ Toxicity Repeated Exposure	STOT RE 2	H373
Environment		
Aquatic Acute	Aquatic Acute 1	H400
Aquatic Chronic	Aquatic Chronic 1	H410

The most important adverse effects:

Physicochemical effects:

None known.

Human health effects:

May cause an allergic skin reaction (Skin Sens. 1A)

Suspected of damaging fertility or the unborn child (Repr. 2)

(Repr. 2)

May cause damage to organs (kidneys) through prolonged or repeated exposure (STOT RE 2)

(STOT RE 2)

Label elements:



Signal word: Warning.

Hazard statements:

H317: May cause an allergic skin reaction.

H361: Suspected of damaging fertility or the unborn child

H373: May cause damage to organs (kidneys) through prolonged or repeated exposure.

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.

P260: Do not breathe fumes, mist, 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.

P302+P352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.

P318: IF exposed or concerned, get medical advice.

P319: Get medical help if you feel unwell.

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 was it before reuse.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents/container in accordance with local regulations.

GHS Classification: Unclassified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture.

Chemical name	CAS	Conc. (m/v%)	Classification EC 1272/2008
Sulcotrione	99105-77-8	25%	Skin Sens. 1A (H317) STOT RE 2 (H373) (kidneys) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Repr. 2

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			(H361d)
Ethylene glycol	107-21-1	<5%	Acute Tox. 4 (H302)
Proxel GXL	2634-33-5	<0.5	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Acute 1 (H400)

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. This product is toxic to aquatic life with long lasting effects. 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.

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.

Advice to physician: No antidote is known. Treat symptomatically and supportively as and when needed. If large amounts have been ingested, perform gastric lavage, and administer activated charcoal. If product is aspirated into the lungs during ingestion or vomiting, mild to severe pulmonary injury may be caused.

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or fumes. 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 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 spilt 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 spilt material back in original container. Do not re-use spilt material. Collect washings and add to the drums already collected. Do not flush spilt 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 inhale spray mist or fumes. 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

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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

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 e.g., PVC 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 e.g., coveralls, (rubber) boots, hat, and equipment to prevent repeated or prolonged skin contact with this product.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this product, 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 viscous liquid.

Odour: Characteristic odour.

Odour threshold: Not available.

pH (1% aqueous dilution): Not available.

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: 1.10 ±0.05 g/ml.

Solubility: Suspensible 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: None known.

Conditions to avoid: Avoid extreme temperatures. Product should not be used if the soil or water has high pH values.

Incompatible materials: None known.

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours of chlorine and nitrous oxides.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Calculated

Oral LD₅₀ (24h) >15 800 mg/kg (rats).

Dermal LD₅₀ (24h) > 15 200 mg/kg (rabbits).

Inhalation LC₅₀ (4h) > 6.00 mg/ℓ (rats).

Skin Irritation / Corrosion: Does not cause skin irritation / corrosion.

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

Skin Sensitization: May cause an allergic skin reaction.

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Respiratory Sensitization: Does not cause respiratory sensitization.

Reproductive cell mutagenicity: Does not cause reproductive cell mutagenicity.

Carcinogenicity: Does not cause carcinogenicity.

Reproductive toxicity: Suspected of damaging fertility or the unborn child.

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

Specific target organ toxicity – repeated exposure: May cause damage to organs (kidneys) through prolonged or repeated exposure.

Aspiration hazard: Not classified.

Chronic Effects: None known.

POTENTIAL ADVERSE EFFECTS:

Skin: This product may cause an allergic skin reaction.

12. ECOLOGICAL INFORMATION

This product is expected to be very toxic to aquatic organisms.

ECOTOXICITY DATA: Active ingredient.

Fish:

LC ₅₀ (96 h)	Rainbow trout	227 mg/l.
	Mirror carp	240 mg/l.

Daphnia:

EC ₅₀ (48 h)		>848 mg/l.
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Algae:

EC ₅₀ (96 h)	<i>Selenastrum capricornutum</i>	3.5 mg/l.
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E _r C ₅₀ (72 h)	<i>Anabaena flos-aquae</i>	54 mg/l.
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Birds:

Acute oral LD ₅₀	Bobwhite quail	>2111 mg/kg.
	Mallard ducks	>1350 mg/kg.

Dietary LC ₅₀	Bobwhite quail and Mallard ducks	>5620 mg/kg diet.
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Bees:

(LD ₅₀ , µg/bee)	(oral)	50 µg/bee.
	(contact)	200 µg/bee.

Worms:

LC ₅₀ (14 d)	<i>Eisenia fetida</i>	>1000 mg/kg soil.
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Animals: Rapidly excreted in the urine, the major metabolite being 4-hydroxysulcotrione.

Plants: Deactivated by the formation of 2-chloro-4-methylsulfonylbenzoic acid.

Persistence and degradability: Rapidly degraded in soil; lab. DT₅₀ 4–90 d; field DT₅₀ 1–11 d. The major metabolite

is 2-chloro-4-methylsulfonylbenzoic acid. K_{oc} 17–58. No adverse effects on soil micro-organisms.

Bio-accumulative potential: Not determined.

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: 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 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
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous, Substance, Liquid, N.O.S. (**Sulcotrione 250 g/l**)

Maritime Transport IMDG / IMO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous, Substance, Liquid, N.O.S. (**Sulcotrione 250 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. (**Sulcotrione 250 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.

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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

Packing and Labelling: Packed in 250, 400, 700, 750 ml, 1, 2, 5, 10, 20 litres plastic containers labelled according to the South African regulations and guidelines.

Additional H statements (formulants):

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

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.

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: May 2021

Reviewed: February 2024

Revision no: (4)

Next revision: February 2029

For detailed information on revisions, contact the Registration holder.