

# SAFETY DATA SHEET

## Selektive 250 SC

### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Selektive 250 SC  
**Other identifier:** Sulcotrione 250 g/l  
**Pesticide Classification:** Herbicide  
**Restrictions on use:** Agriculture

#### Supplier

Enviro Bio-Chem (Pty) Ltd  
 Co. Reg. No.: 2013/194774/07  
 44 Kerk Street, Lichtenburg  
 North West, South Africa 2740

#### Registration Holder

Enviro Bio-Chem (Pty) Ltd  
 Co. Reg. No.: 2013/194774/07  
 44 Kerk Street, Lichtenburg  
 North West, South Africa 2740

**Telephone:** +27 12 006 0063  
**Fax:** 086 541 7948  
**Website:** www.envirobiochem.co.za

**24 Hr Emergency Number:** Spillage: 0861 000 366

#### **In case of Poisoning:**

Griffon Poison Information Centre: +27 82 446 8946  
 Tygerberg Hospital: (+27 21) 931 6129  
 Poison Emergency Enquiries: (+27 21) 689 5227

### 2. HAZARD IDENTIFICATION

UN GHS, Regulation EC 1272/2008 [EU-GHS/CLP] EU & SANS 10234:2008		
Hazard classes	Hazard categories	Hazard statements
Skin sensitisation	Category 1A	H317
Acute toxicity inhalation	Category 4	H332
Reproduction	Category 2	H361F
STOT RE	Category 2	H373
Aquatic Toxicity Acute	Category 1	H400
Aquatic Toxicity Chronic	Category 1	H410

#### **The most important adverse effects:**

**The most important adverse physiochemical effects:** None Known.

**The most important adverse human health effects:** Harmful if inhaled. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction.

#### **Label elements:**



**Signal word:** Warning

#### **Hazard statements:**

H317: May cause an allergic skin reaction.  
 H332: Harmful if inhaled.

H361f: Suspected of damaging fertility.  
 H373: May cause damage to organs through prolonged or repeated exposure (Kidneys).  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements:**

P102: Keep out of reach of children.  
 P103: Read label before use.  
 P201: Obtain special instructions before use.  
 P202: Do not handle until all safety precautions have been read and understood.  
 P260: Do not breathe mist, vapours and spray.  
 P264: Wash hands and face thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 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.  
 P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.  
 P308/313: If exposed or concerned: Get medical attention.  
 P333/313: If skin irritation or rash occurs: Get medical advice.  
 P391: Collect spillage.  
 P405: Store locked up.  
 P501: Dispose of contents/container to suitable landfill in accordance with local regulations.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substances/ Mixture:** Mixture

**Composition:**

Chemical Name	CAS	Conc. (m/m%)	Classification EC 1272/2008
Sulcotrione	99105-77-8	25 %	Skin Sensitisation (Category 1) H317 STOT RE (Category 2), H373 Kidney Reproduction Toxicity (Category 2) H361f Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Poly(oxy-1.2-ethanediyl), -tris (1-phenylethyl) phenyl-omega-hydroxy	99734-09-5	<6%	Aquatic Chronic (Category 3) H412
Ethylene glycol	107-21-1	< 5%	Acute toxicity (Category 4) H302
Sodium benzoate	532-32-1	< 1%	Eye Irritation (Category 2A) H319

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

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### 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 and consult a doctor / poison control centre.

**Inhalation:** Avoid inhalation of vapour or mist spray. If inhaled, remove to fresh air. Administer artificial respiration if breathing is stopped. Seek medical attention.

**Skin:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical attention if symptoms persist.

**Eyes:** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. If eye symptoms (redness, irritation, or pain) persist refer patient to ophthalmologist for examination of eyes.

**Ingestion:** Wash out mouth with water if the patient is alert and conscious. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to avoid aspiration. Keep patient at rest and transport to nearest medical facility for further treatment. attention. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

**Anticipated acute effects:** Harmful if inhaled. May cause an allergic skin reaction.

**Anticipated delayed effects:** Suspected of damaging fertility. May cause damage to kidneys after prolonged or repeated exposure.

**Most important symptoms/effects:** None known.

**Advice to physician:** Treat symptomatically and supportively. No specific antidote known.

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## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide, dry powder, or alcohol-resistant foam for small fires and water fog or foam can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

**Unsuitable Extinguishing Media:** High volume water jet. Use a water jet only to cool heated containers.

**Specific hazards:** May release irritating fumes upon combustion such as oxides of carbon and nitrogen. Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

**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. Keep upwind. 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.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Keep all personal away may be toxic by inhalation. Avoid contact with eyes and skin. Do not breathe in spray mist or dust. Ventilate area of spill, 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. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel

**Environmental Precautions:** Stop leak if without risk. Do not touch spilled material. Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms with 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. Cover contained spill with an inert absorbent material e.g., sand, earth, vermiculite, or diatomaceous earth.

**Methods and Materials for Clean-up:** Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal. Do not create a powder cloud by using a brush or compressed air. 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. To decontaminate the spill area, tools and equipment, wash with water and suitable detergent. Collect washings and add to the drums already collected. Do not flush spilled material or washings into drains or waterways. See section 13 for disposal considerations.

## 7. HANDLING AND STORAGE

### Handling:

**Precautions for safe handling:** May be harmful if inhaled. Avoid contact with eyes and skin. Ensure adequate ventilation during handling and use. 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:** Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with good industrial hygiene and safety practice. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or applying cosmetics. Worker should shower at the end of each workday. Wash 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.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

### Exposure Limits:

No information available.

**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.

**Hygiene measures:** Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### 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.

**Hand Protection:** The use of chemically protective gloves is recommended to prevent against skin contact. Examples of preferred glove barrier materials include Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

**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:** Employee 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.

**Environmental exposure controls:** Prevent product from entry into sewers and water courses.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Colour</b>	Light yellow
<b>Odour</b>	No data available
<b>Odour threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point / freezing point (° C)</b>	No data available
<b>Boiling point (° C)</b>	No data available
<b>Flash point (° C)</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability</b>	Non flammable
<b>Upper /lower flammability limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Relative density (25°C)</b>	1.130-1.140
<b>Water solubility (g/l) at 20°C</b>	Soluble in water
<b>Partition coefficient: n-octanol/water partition coefficient</b>	No data available
<b>Auto-ignition temperature (° C)</b>	No data available
<b>Decomposition temperature (° C)</b>	No data available
<b>Viscosity, dynamic (mPa s)</b>	No data available
<b>Explosive properties</b>	No data available
<b>Explosive properties</b>	No data available
<b>Oxidising properties</b>	No data available
<b>Explosive limits</b>	No data 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:** Will not occur.

**Conditions to Avoid:** Avoid excessive heat and ignition sources.

**Incompatible Materials:** Highly alkaline conditions for extended periods of time.

**Hazardous Decomposition Products:** Combustion or thermal decomposition will evolve toxic and irritant vapors of chlorine and nitrous oxides.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

Calculated according to GHS:

**Acute Oral LD<sub>50</sub> (rat):** > 5000 mg/kg

**Acute Dermal LD<sub>50</sub> (rat):** > 5000 mg/kg

**Acute Inhalation LC<sub>50</sub> (rat, 4 hr):** > 3.1 mg/l air.

**Skin Irritation:** Not classified.

**Eye Damage/Irritation:** Not classified.

**Skin Sensitization:** May cause an allergic skin reaction.

**Respiratory Sensitization:** Not classified.

**Reproductive cell mutagenicity:** Not classified.

**Carcinogenicity:** Not classified.

**Reproductive toxicity:** Suspected of damaging fertility.

**Specific target organ toxicity – single exposure:** Not classified.

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

**Aspiration hazard:** Not classified.

**Chronic Effects (other targets e.g. developmental):** Not classified

## 12. ECOLOGICAL INFORMATION

The product is classified as a marine pollutant.

### ECOTOXICITY DATA:

**Active ingredient: Sulcotrione CAS No. 99105-77-8**

#### Fish

LC<sub>50</sub> (96 hr) 277 mg/l (rainbow trout); 240 mg/l (mirror carp).

#### Daphnia

EC<sub>50</sub> (48 hr) >848 mg/l

#### Algae

Static test EC<sub>50</sub> (96h) 3.5 mg/l (*Selenastrum capricornutum*)

#### Birds

Acute oral LD<sub>50</sub> >2111 mg/kg (bobwhite quail); >1350 mg/kg (mallard ducks)  
Dietary LC<sub>50</sub> 8 days >5620 mg/kg diet (bobwhite quail and mallard ducks)

#### Bees

Toxicity to bees LD<sub>50</sub> (oral) 50 µg/bee.  
Toxicity to bees LD<sub>50</sub> (contact) 200 µg/bee.

#### Worms

LC<sub>50</sub> (14d) >1000 mg/kg soil (*Eisenia fetida*)

**Biodegradability:** The compound is rapidly degraded in soil. Laboratory DT<sub>50</sub> values range from 4–90 days, while field studies show much faster dissipation with DT<sub>50</sub> values of 1–11 days. The primary metabolite is 2-chloro-4-methylsulfonylbenzoic acid. Studies indicate no adverse effects on soil micro-organisms.

**Bioaccumulation:** Log K<sub>ow</sub> values range from –2.0 (pH 9) to 0.2 (pH 4), indicating a negligible potential for bioaccumulation.

**Mobility:** With a K<sub>oc</sub> of 17–58, the compound is classified as mobile in soil and may leach under certain conditions.

**Additional information:** Avoid release to the environment.

## 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 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.

**Package Product Wastes:** Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Puncture the triple rinsed container and dispose of via an approved collector or recycler ([www.croplife.co.za](http://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.

**Ecology - waste materials:** Avoid release to the environment.

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## 14. TRANSPORT INFORMATION

<b>UN Number</b>	3082
<b>Road Transport ADR/IRD:</b>	
Class:	9
Packaging group:	III
UN proper Shipping Name:	Environmentally Hazardous Substance; Liquid; N.O.S. (Sulcotrione 250 g/l).
<b>Maritime Transport IMDG/IMO:</b>	
Class:	9
Packaging group:	III
UN proper Shipping Name:	Environmentally Hazardous Substance; Liquid; N.O.S. (Sulcotrione 250 g/l).
<b>Marine Pollutant (Y/N):</b>	Yes
<b>Air Transport IATA/ICAO:</b>	
Class:	9
Packaging group:	III
UN proper Shipping Name:	Environmentally Hazardous Substance; Liquid; N.O.S. (Sulcotrione 250 g/l).

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## 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation for the mixture:**

**Relevant information regarding authorization:** Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 8, 2019.

**Relevant information regarding restrictions:** None.

**EU regulation:** Regulation EC1272/2008 (EU-GHS/CLP)

**Other national regulations:** National Road Traffic Act, 1996 (ACT NO. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management Waste Act 59 of 2008. Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

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## 16. OTHER INFORMATION

**Note:** Read and understand all the information on the product label before using the product.

**Other hazard statements, abbreviations and explanations:**

**H317:** May cause an allergic skin reaction.

**H332:** Harmful if inhaled.

**H361f:** Suspected of damaging fertility.

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

**H400:** Very toxic to aquatic life.

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

**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.

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## **END OF DOCUMENT**

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**Reviewed:** August 2025  
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For detailed information on revisions, contact the registration holder.