

SALUTE 480 SC

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: SALUTE 480 SC
Other identifier: OXYFLUORFEN 480 SC
Recommended use: Herbicide
Restrictions on use: Agriculture

Registration holder: 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 Helpline +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
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: None known.
Label elements:



Signal word: Warning
Hazard statement
H400: Very toxic to aquatic.
H410: Very toxic to aquatic life with long-lasting effects.

Precautionary statement

P273: Avoid release into the environment.
P391: Collect spillage.
P501: Dispose of contents/container to suitable landfill in accordance with local regulations.
Other hazards:
Very toxic to aquatic organisms may cause long-term adverse effects.
Toxicity:
Classification according to GHS: Unclassified

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture:

Chemical name	CAS No.	Composition (m/v%)	Classification according to Regulation EC 1272/2008 (CLP)
Oxyfluorfen	42874-03-3	±45 %	Aquatic Acute - 1 (H400) Aquatic Chronic - 1 (H410)
Mono-ethylene glycol	107-21-1	>5%	Acute Oral Tox. 4 (H302)
Tristyrylphenol ethoxylates	99734-09-5	>5%	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 patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. **Seek medical assistance immediately.**
Skin: Immediately flush body with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Seek medical assistance should irritation persist. Wash contaminated clothing before re-use
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.
Seek medical assistance immediately.
Anticipated acute effects: None known.
Anticipated delayed effects: None known
Most important symptoms / effects: Aside from the information found under Description of first aid measures

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(above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in **Section 11: Toxicology Information**.

Advice to physician: No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or doctor or going for treatment.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray or fog, dry chemical powder, carbon dioxide or foam.

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

Specific hazards: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Nitrogen oxides. Hydrogen fluoride. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

Special fire-fighting procedures: Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes. Keep upwind. Remove containers if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material and avoid polluting waterways.

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, dust 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.. Heavily contaminated soil layers should be removed and disposed of in an approved way. This product is classified as very toxic / 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: Wear protective clothing. Clear area of unprotected personnel. : Contain spilled product by diking area with sand or earth. Use approved industrial vacuum cleaner for removal and place in waste containers. Wash area with water and detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.

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 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: HDPE

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

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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: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance. Wash contaminated clothing before re-use.

Respiratory Protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or were indicated by your risk assessment process. For most conditions no respiratory protection should be needed.

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. 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.

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: Yellow to orange liquid, suspension concentrate.

Odour: Characteristic

Odour threshold: No data available

pH (1% aqueous dilution): 7-9.

Melting point: 85-90°C.

Freezing Point: 0 °C.

Boiling Point: Not available.

Flash Point: > 70 °C.

Flammability: Not flammability

Upper / lower explosion limits: No data available

Vapour Pressure (mm Hg): 0.0267 mPa (25 °C).

Relative Vapour Density: No data available

Density / Relative density: Approximately 1.09 g/L.

Solubility: Disperse 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: No dangerous reaction known under conditions of normal use.

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extreme heat or exposure to flames. Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid.

Incompatible materials: Strong oxidizers, strong bases, strong reducing agents.

Hazardous decomposition products: Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide. Hydrogen chloride. Hydrogen fluoride. Nitrogen oxides. Toxic gases are released during decomposition.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS Classification

Oral LD₅₀ > 5 000 mg/kg (rat).

Dermal LD₅₀ > 5 000mg/kg (rat).

Inhalation LC₅₀ (4h) > 5 mg/l (rat)

Skin Irritation / Corrosion: Non-irritant.

Eye Damage/ Irritation : Non-irritant.

Skin Sensitisation : Does not cause sensitization

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:

Ingestion: Diarrhoea, vomiting

Other information: No data

12. ECOLOGICAL INFORMATION

Very toxic to aquatic life with long-lasting effects.

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ECOTOXICITY DATA:

Oxyfluorfen TC

Bees:

LD₅₀ (48 h) >25 mg/bee

Algae:

E_bC₅₀ and *Pseudokirchneriella* >0.0029 mg/L
E_rC₅₀ (240 h) *subcapitata*

Birds:

LD₅₀ Mallard ducks >5620 mg/kg

LD₅₀ Bobwhite quail >2510 mg/kg

Worms:

LC₅₀ (14d) earthworms >1000 mg/kg

Fish:

LC₅₀ (96h) Bluegill sunfish 0.2 mg/L

Trout 0.41 mg/L

Channel catfish 0.4 mg/L

Other aquatic

species:

E_bC₅₀ (14 d) Lemna gibba 0.00032 mg/L

ENVIRONMENTAL EFFECTS

Based on information for the active ingredient(s)
(Oxyfluorfen)

Persistence and degradability: Not determined.

Bio-accumulative potential: Not determined.

Mobility in soil: Oxyfluorfen Expected to be relatively immobile in soil (Koc > 5000). Partition coefficient (Koc): 6831

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 / ORD:

Class: 9

Packaging group: III

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

Maritime Transport IMDG / IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Oxyfluorfen 480 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 (Oxyfluorfen 480 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.

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.

H318: Causes serious eye damage

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

H317: May cause an allergic skin reaction.

H315: Causes skin irritation

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

IATA: International Air Transport Association.

IBC: International Bulk Chemical.

ICAO: International Civil Aviation Organization.

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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.

PEL: Permissible Exposure Limits.

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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For detailed information on revisions, contact the Registration holder.