

# REMOVE 250 EC

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** RESULT 250 EC  
**Other identifier:** Oxadiazon 250 EC  
**Recommended use:** Herbicide  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
 Co Reg No 1992/002474/07  
 PO Box 10413,  
 Aston Manor, 1630, South Africa

**Telephone:** (011) 396 2233

**Fax:** (011) 396 4666

**Website:** [www.villacrop.co.za](http://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
<b>Health</b>		
Oral	Acute Tox. 5	H303
Aspiration Hazard	Asp. Tox. 1	H304
Skin Irritation	Skin Irrit. 2	H315
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 4	H332
<b>Environment</b>		
Aquatic Acute	Aquatic Acute 2	H401
Aquatic Chronic	Aquatic Chronic 2	H411

### The most important adverse effects:

#### Physiochemical effects:

None known

#### Human health effects:

May be fatal if swallowed and enters airways (Asp. Tox. 1).

Causes skin irritation (Skin Irrit. 2).

Causes serious eye damage (Eye Dam. 1).

Harmful if inhaled (Acute Tox. 4).

### Label elements:



**Signal word:** Danger.

### Hazard statements:

H303: May be harmful if swallowed.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

### Precautionary statements:

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

P264: Wash hands and face thoroughly after handling.

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

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear impervious rubber gloves and boots, protective clothing, and chemical safety goggles.

P301+P316: IF SWALLOWED: Get emergency medical help immediately.

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.

P331: Do NOT induce vomiting.

P332+P317: If skin irritation occurs: get medical help.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P405: Store locked up.

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

**Special labelling of certain mixtures:** None known.

**Other hazards:** None known.

**Toxicity:**

## REMOVE 250 EC

## SAFETY DATA SHEET

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
Oxadiazon (96% Min)	19666-30-9	25 %	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Sodium dodecyl benzene sulfonate	25155-30-0	<20 %	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
Aromatic 150 solvent (Naphtha, heavy aromatic)	64742-94-5	< 80 %	Asp. Tox. 1 (H304)

### 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. Immediately consult a doctor.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. **Seek medical attention if you feel 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.**

**Ingestion:** Have victim rinse mouth thoroughly with water. **Do not induce vomiting, due to the aromatic solvent. Seek medical advice immediately.** If the person is alert and respiration is not depressed, give large quantity of water to drink. Never give anything by mouth to an unconscious person. Establish and maintain airway. Treat respiratory difficulty with artificial respiration and oxygen. Qualified medical personnel should perform administration of gastric lavage or oxygen.

**Anticipated acute effects:** Harmful if inhaled.

**Anticipated delayed effects:** May be fatal if swallowed and enters airways.

**Most important symptoms/effects:** If ingested perform gastric lavage and administer activated charcoal. No specific antidote. Treat symptomatically and give supportive therapy.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry powder 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:** Fire may produce irritating or poisonous vapours or gases (oxides of chlorine and sulphur) or other products of 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. 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. 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 and skin. Do not breathe in spray mist or 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 to be 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

## REMOVE 250 EC

## SAFETY DATA SHEET

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.

exceed exposure limits), use a NIOSH approved air-purifying respirator.

### 7. HANDLING AND STORAGE

#### Handling:

**Precautions for safe handling:** 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.

**Hand Protection:** The use of chemically protective impervious rubber gloves is recommended to prevent against skin contact.

**Eye Protection:** The use of face shield/musk/chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

**General occupational hygiene:** Practice good hygiene when using this product. 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.

**Skin and Body Protection:** Employee must wear appropriate protective impervious clothing e.g., coveralls, rubber boots, hat, and equipment to prevent repeated or prolonged skin contact with this product. Do not wear leather clothing.

#### 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.

**Emergency eyewash:** Where there is any possibility that an employee's eyes may be exposed to this product; the employer should provide an eyewash fountain or appropriate alternative within the immediate work area for emergency use.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Fluorinated Plastic containers.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Uniform brown Liquid.

**Odour:** Aromatic.

**pH (1% aqueous dilution):** 6.0 to 7.0 (1 % dispersion).

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not available.

**Flammability:** Not available.

**Upper/lower explosion limits:** Not available.

**Vapour Pressure (mm Hg):** Not available.

**Relative Vapour Density:** Not available.

**Density/Relative density:** 0.98 g/cm<sup>3</sup> at 20°C.

**Solubility:** Emulsifiable in water.

**n-octanol/water partition coefficient:** Not available.

**Auto-ignition temperature:** Not available.

**Decomposition temperature:** Not available.

**Viscosity:** Not available.

### 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

### 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:** Keep containers away from sunlight and heat.

**Incompatible Materials:** Avoid contact with alkaline product.

# REMOVE 250 EC

# SAFETY DATA SHEET

Hazardous Decomposition Products: None known.

## 11. TOXICOLOGICAL INFORMATION

Calculated according to GHS.  
**Oral LD<sub>50</sub>** (24 h) rats >3600 mg/kg.  
**Dermal LD<sub>50</sub>** (24 h) rats >5800 mg/kg.  
**Inhalation LC<sub>50</sub>** (4 h) rats >2.4 mg/ℓ.  
**Skin Irritation/Corrosion:** Causes skin irritation.  
**Eye Damage/Irritation:** Causes serious eye damage.  
**Skin Sensitization:** Not classified.  
**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:** May be fatal if swallowed and enters airways.  
**Chronic Effects:** None known.  
**POTENTIAL ADVERSE EFFECTS:** None known.

## 12. ECOLOGICAL INFORMATION

This product is toxic to aquatic organisms, may cause long-term effects in the aquatic environment.

### ECOTOXICITY DATA: Active ingredient.

<b>Fish:</b>		
LC <sub>50</sub> (96 h)	Rainbow trout and bluegill sunfish	1.2 mg/ℓ
<b>Daphnia:</b>		
EC <sub>50</sub> (48 h)		>2.4 mg/ℓ
<b>Algae:</b>		
E <sub>r</sub> C <sub>50</sub> (120) h	<i>Anabaena flos-Aquae</i>	3.7 mg/ℓ
	<i>Selenastrum capricornutum</i>	0.021 mg/ℓ
E <sub>r</sub> C <sub>50</sub> (72 h)	<i>Scenedesmus subspicatus</i>	0.00423 mg/ℓ
E <sub>b</sub> C <sub>50</sub> (120 h)	<i>Selenastrum capricornutum</i>	0.0082 mg/ℓ
E <sub>b</sub> C <sub>50</sub> (72 h)	<i>Scenedesmus subspicatus</i>	0.00318 mg/ℓ
<b>Birds:</b>		
Acute oral LD <sub>50</sub> (24 d)	Mallard ducks	>1000 mg/kg.
	Bobwhite quail	>2150 mg/kg.
Dietary LC <sub>50</sub>	Bobwhite quail and mallard	>5000 mg/kg diet.

ducks

**Bees:**  
 (LD<sub>50</sub>, µg/bee) >400 µg/bee.  
**Worms:**  
 LC<sub>50</sub> (14 d) *Eisenia fetida* >500 mg/kg soil.  
**Other aquatic spp.**  
 EC<sub>50</sub> (14 d) *Lemna gibba* 0.057 mg/ℓ.  
**Animals:** In mammals, following oral administration, 93% is eliminated within 72 hours, predominantly in the urine.  
**Plants:** Oxadiazon penetrates plants primarily via shoots and leaves and is rapidly metabolised. Metabolites do not accumulate in the plant.  
**ENVIRONMENTAL EFFECTS:**  
**Persistence and degradability:** Strongly adsorbed by soil colloids and humus, with very little migration or leaching. Negligible loss due to volatilisation. DT<sub>50</sub> in soil c. 3–6 mo. See D. Ambrosi et al., J. Agric. Food Chem., 1977, 25, 868. Koc 1400 (silt loam) to 3200 (sand) at 25 °C.  
**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](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.

## 14. TRANSPORT INFORMATION

**UN Number:** 3082  
**Road Transport ADR/IRD:**  
 Class: 9  
 Packaging group: III

## REMOVE 250 EC

## SAFETY DATA SHEET

UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Oxadiazon 250 g/l)

### Maritime Transport IMDG/IMO:

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally Hazardous Substance, Liquid, N.O.S. (Oxadiazon 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. (Oxadiazon 250 g/l)

**Special/Environmental Precautions:** Wedge drums/containers 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 500 ml, 1, 2, 5, 10, 20 & 25 litres fluorinated plastic containers, labelled according to South African regulations and guidelines.

### Additional H statements (formulants):

**H302:** Harmful if swallowed.

**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.

**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.

**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.