

# GRANTRON 750 WDG

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** GRANTRON 750 WDG  
**Other identifier:** Mesotrione 750 WDG  
**Recommended use:** Herbicide  
**Restrictions on use:** Agriculture

**Supplier:** Villa Crop Protection (Pty) Ltd.  
 PO Box 801  
 Kempton Park, 1620, South Africa  
**Telephone:** (011) 3962233  
**Fax:** (011) 3964666  
**Website:** [www.villacrop.co.za](http://www.villacrop.co.za)

**Emergency telephone numbers:**  
**24 Hr Transport / Spill emergency no:**  
 Envirosure. +27 31 205 4918  
 (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  
**Villa Crop Protection Emergency number:**  
**National Safety, Health and Environmental Manager:**  
 +27 63 698 0668

## 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
Dermal	Acute Tox. 5	H313
Inhalation	Acute Tox. 5	H333
<b>Environment</b>		
Aquatic acute	Aquatic Acute 1	H400
Aquatic chronic	Aquatic Chronic 1	H410

**The most important adverse effects:**

**Physicochemical effects:**

None known.

**Human health effects:**

Causes mild skin irritation.

**Label elements:**



**Signal word:** Warning

## Hazard statements:

H303: May be harmful if swallowed.  
 H313: May be harmful in contact with skin.  
 H333: May be harmful if inhaled.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.

## Precautionary statements:

P273: Avoid release to the environment.  
 P391: Collect spillage.  
 P501: Dispose of contents/container in accordance with local regulations.

## Special labelling of certain mixtures:

None known.

## Other hazards:

None known.

## Toxicity:

Classification according to GHS: Category 5  
 Classification according to WHO: III

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Substance/Mixture:** Mixture

### Composition:

Chemical Name	CAS	Conc. (m/M %)	Classification EC 1272/2008
Mesotrione TC	104206-82-8	75%	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Anionic surfactants	68439-57-6	< 5%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)

## 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. Consult a doctor if symptoms persist.

**Inhalation:** Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if irritation occurs or 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. Lift eyelids to facilitate irrigation. If present, remove contact lenses 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

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person. If the person is alert, rinse mouth thoroughly with water.

**Anticipated acute effects:** Causes mild skin irritation.

**Anticipated delayed effects:** None known.

**Most important symptoms/effects:** Causes mild skin irritation.

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

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical, water fog or foam.

**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. 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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin. Do not breathe in spray mist or dust.

**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 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.

**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 swallowed. Avoid contact with 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:** 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 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.

**Packaging material:** Plastic/foil containers/bags or water-soluble bags.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Permissible concentration**

Components	Exposure limits	Type of exposure limit	Source
Kaolin (Total dust)	15 mg/m <sup>3</sup>	Up to 10-hour TWA	NIOSH REL

**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.

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## 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.

**Eye Protection:** This product is not likely to cause eye irritation, but as a safety measure, 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Light brown granules.

**Odour:** Not available.

**pH:** 4.1 @ 20°C.

**Melting point:** Not available.

**Freezing Point:** Not available.

**Boiling Point:** Not available.

**Flash Point:** Not applicable.

**Flammability:** Not flammable.

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

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

**Relative Vapour Density:** Not available.

**Density:** Not available.

**Solubility:** Disperses in water.

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

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

**Decomposition temperature:** Not available.

**Viscosity:** Not applicable.

## 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:** Extreme heat or exposure to flames.

**Incompatible Materials:** None known.

**Hazardous Decomposition Products:** None known.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE TOXICITY:

**Based on experimental data**

**Oral LD<sub>50</sub> rat > 2000 mg/kg**

**Dermal LD<sub>50</sub> rat > 2000 mg/kg**

**Inhalation LC<sub>50</sub> rat > 5.0 mg/L**

**Skin Irritation:** Animal tests showed the product to be none irritating to skin.

**Eye Damage/Irritation:** Animal tests showed the product to be none irritating.

**Skin Sensitization:** Product is not a skin sensitizer.

**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 (other targets e.g. developmental):** Not available.

### POTENTIAL ADVERSE EFFECTS:

**Inhalation:** May be harmful if inhaled.

**Skin contact:** May be harmful in contact with skin.

**Eye contact:** None known.

**Ingestion:** May be harmful if swallowed.

## 12. ECOLOGICAL INFORMATION

This product is expected to be a marine pollutant.

**ECOTOXICITY DATA:** Based on Active ingredient.

### Fish:

LC <sub>50</sub> (96 h)	Bluegill sunfish	
	Rainbow trout	> 120 mg/l.
	Common carp	> 97.1 mg/l.

### Daphnia:

LC <sub>50</sub> /EC <sub>50</sub> (48 h, static)		> 900 mg/l.
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### Algae:

EC <sub>50</sub> (120 h)	<i>Pseudokirchneriella subcapitata</i>	3.5 mg/l.
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### Birds:

Acute oral LD <sub>50</sub>	Bobwhite quail	>2000 mg/kg.
Dietary LC <sub>50</sub> (5 d)	Bobwhite quail	
	Mallard ducks	> 5200 mg/kg.

### Bees:

LD <sub>50</sub> contact		> 100 ug/bee.
LD <sub>50</sub> oral		> 11 ug/bee.

### Worms:

LD <sub>50</sub> (14 d)		>2000 mg/kg.
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## ENVIRONMENTAL EFFECTS:

**Animals:** Extensively absorbed (c. 70% in 72h), widely distributed and excreted (up to 70% in 72h), 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:** 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:** Emptied containers retain product residues. Do not re-use the empty container for any other purpose. Empty containers by inverting the empty container over the spray or mixing tank. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Add the rinsing's to the contents of the spray tank before destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

## 14. TRANSPORT INFORMATION

**UN Number: 3077**

**Road Transport ADR/IRD:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S. (**Mesotrione** 750 g/kg)

**Maritime Transport IMDG/IMO:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S. (**Mesotrione** 750 g/kg)

**Marine Pollutant (Y/N):**

**Air Transport IATA/ICAO:**

Class: 9  
 Packaging group: III  
 UN Proper Shipping Name: Environmentally hazardous substance, Solid, N.O.S. (**Mesotrione** 750 g/kg)

**Special/Environmental Precautions:** None known.

**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 5, 10, 50, 100, 200, 250, 500g, 1, 2, 2.5, 5, 10, 20, 25 and 50 kg plastic/foil containers/bags or water-soluble bags, labelled according to South African regulations and guidelines.

**Additional H statements (formulants):**

**H315:** Causes skin irritation.

**H319:** Causes serious eye irritation.

**H411:** Toxic to aquatic life with long lasting effects.

**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.