

MICRA 750 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MICRA 750 WDG
Other identifier: ISOXAFLUTOLE 750 WDG
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

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
Health		
Oral	Acute Tox. 5	H303
Dermal	Acute Tox. 5	H313
Skin irritation	Skin Irrit. 3	H316
Eye damage	Eye Dam. 2	H319
Reproductive	Reproductive Toxicity 2	H361
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: Maybe harmful if swallowed, maybe harmful in contact with skin, causes mild skin irritation, causes serious eye irritation, and suspected of damaging the unborn child.

Label elements:



Signal word: Warning

Hazard statements:

H303: Maybe harmful if swallowed.
 H313: Maybe harmful in contact with skin.
 H316: Causes mild skin irritation.
 H319: Causes serious eye irritation.
 H361d: Suspected of damaging fertility or the unborn child.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P203: Obtain, read and follow all safety instructions before use.
 P264+P265: Wash hands thoroughly after handling. Do not touch eyes.
 P273: Avoid release into the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P301+P317: IF SWALLOWED: Get medical help.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P318: IF exposed or concerned, get medical advice.
 P332+P317: If skin irritation occurs: get medical help.
 P337+P317: If eye irritation persists: Get medical help.
 P391: Collect spillage.
 P405: Store locked up.
 P501: Dispose of content/container to suitable landfill in accordance with local regulations.

Other hazards:

None known.

Toxicity:

Classification according to GHS: Category 5

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Composition:

Chemical name	CAS	Conc. (m/m%)	Classification EC 1272/2008
Isoxaflutole	141112-29-0	78.95%	Reproductive Toxicity (H361) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Rhodia L-WET/P	151-21-3	<5%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) 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 and consult a doctor.

Inhalation:

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If dusts or mists have been inhaled and irritation has developed, remove the source of contamination or move victim to fresh air. Keep the patient warm and at rest. **If symptoms persist, obtain medical attention.**

Skin:

Remove contaminated clothing and shoes. Gently wipe off excess chemical. Wash skin gently and thoroughly with water and non-abrasive soap and large amounts of water for 15 to 20 minutes. **Obtain medical attention if irritation persists.**

Eyes:

Flush eyes with clean water. Lift eyelids to facilitate irrigation with water for 15 to 20 minutes. If present, remove contact lenses and continue rinsing. **Seek medical attention if irritation persists.**

Ingestion:

Seek medical attention or call a poison control centre for treatment advice. **Do not induce vomiting.** Do not give anything by mouth to an unconscious person. If the person is alert, rinse mouth thoroughly with water.

Anticipated acute effects:

Maybe harmful if swallowed
 Maybe harmful in contact with skin.
 Causes mild skin irritation.
 Causes serious eye irritation.

Anticipated delayed effects:

Suspected of damaging the unborn child.

Most important effects:

Suspected of damaging the unborn child.

Advice to physician:

Treatment is otherwise controlled by removal of exposure followed by symptomatic and supportive care. No specific antidote known.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Use water spray, alcohol-resistant foam, CO₂ or dry chemicals.

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

Specific hazards

Fire Hazards: In case of fire the evolution of dangerous gases is possible.

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 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: In the event of fire and/or explosion do not breathe fumes. Wear NIOSH /

MSHA approved self-contained breathing apparatus and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep people away from and upwind of spill/leak. **Avoid contact with skin and eyes.** Avoid dust formation. Do not breathe in dust or mist. Ventilate area of spill or leak, especially in contained areas and keep people away from and upwind of spillage or leak.

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: Isolate and post spill area. Prevent spilled product from entering sewers, waterways or ground water. This product is classified as very toxic to aquatic organisms and will 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: Transfer collected material to heavy duty plastic drums and keep safe for disposal.

Methods and Materials for Clean-up: Contain spilled product by picking up with an electrically protected vacuum cleaner or by wet-brushing and transfer collected material to heavy duty plastic drums and keep safe for disposal. Do not create a dust 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, observing environmental regulations. 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:

Causes serious eye irritation. Causes mild skin irritation. Suspected of damaging fertility or the unborn child. Ensure adequate ventilation during handling and use. Do not inhale spray dust or mist. Do not handle broken packages without protective equipment. Immediately clean up spills that occur during handling. Avoid dust formation. During processing, dust may form explosive mixture in air. 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,

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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. Storage temperature should ideally lie between 0 and 30°C, however, storage for two weeks at 54°C has shown no adverse effects regarding product safety or stability. Do not store near heat, open flame, sources of ignition or hot surfaces and 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 containers and bags.

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: Wear suitable personal protective equipment including approved respiratory protection. For dust exposure, wear a respirator conforming to EN149FFP1. Respiratory protection should only be used to control residual risk of short activities. When all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow the manufacturer's instructions regarding wearing and maintenance.

Hand Protection: Employee must wear appropriate CE marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40mm). Wash when contaminated. Dispose of when contaminated inside, perforated or contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye Protection: Wear goggles conforming to EN166 (Field of use 5 or equivalent). Contact lenses are not protective eye devices.

Skin and Body Protection: Wear standard coverall and type 5 suits. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

When using, do not eat, drink or smoke. Remove soiled clothing immediately. Clean hands and face at work intervals and after work. Work in an adequately ventilated room.

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: Off-white to light brown free-flowing granules.

Odour: Weak, characteristic.

Odour threshold: Not available.

pH (1% aqueous dilution): 5.0 to 7.0.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable to solids.

Flammability: Not applicable to solids.

Upper / lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not applicable.

Relative Vapour Density: Not applicable.

Bulk density: 555 to 625 kg/m³.

Solubility: Dispersible in water.

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not applicable to solids

Decomposition temperature: Not available.

Viscosity: Not applicable to solids

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. Storage temperature should ideally lie between 0 and 30°C, however, storage for two weeks at 54°C has shown no adverse effects regarding product safety or stability.

Reactivity: None known.

Possibility of hazardous reactions: Unlikely to occur.

Conditions to avoid: Extremes of temperature and direct sunlight.

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

Hazardous decomposition products: Alcohols, carbon monoxide and carbon dioxide may form under burning conditions or with incomplete combustion.

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11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS.

Oral LD₅₀ (24h) > 4486 mg/kg (rat)

Dermal LD₅₀ > 2533 mg/kg (rabbit)

Inhalation LC₅₀ (4h) > 48 mg/l

Skin Irritation: Causes mild skin irritation.

Eye Irritation: Causes serious eye irritation.

Skin Sensitization: Not calculated.

Respiratory Sensitization: Not calculated.

Reproductive cell mutagenicity: Not calculated.

Carcinogenicity: Not calculated.

Reproductive toxicity: Suspected of damaging the unborn child.

Specific target organ toxicity – single exposure: Not calculated.

Specific target organ toxicity – repeated exposure: Not calculated.

Aspiration hazard: Not calculated.

Chronic Effects: Not calculated.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Not calculated.

Ingestion: Not calculated.

12. ECOLOGICAL INFORMATION

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

ECOTOXICITY DATA:

Active ingredient: Isoxaflutole

Fish:

LC ₅₀ (96 h)	Rainbow trout	>1.7 mg/l
	Bluegill sunfish	>2.7 mg/l
	Sheephead minnows	>6.4 mg/l

Daphnia:

EC ₅₀ (48 h)		>1.5 mg/l
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Algae:

EC ₅₀ (72 h)	<i>Selenastrum capricornutum</i>	0.016 mg/l
E _r C ₅₀ (72 h)	<i>Navicula pelliculosa</i>	>0.44 mg/l
	<i>Pseudokirchneriella subcapitata</i>	1.71 mg/l

Birds:

Acute oral LD ₅₀	Mallard ducks	>2150 mg/kg
	Quail	>2150 mg/kg
Dietary LD ₅₀ (8d)	Mallard ducks	>5000 mg/kg diet
	Quail	

Bees:

LD ₅₀ contact		>100 µg/bee
LD ₅₀ oral		>100 µg/bee

Worms:

LC ₅₀ (14 d)	<i>Eisenia fetida</i>	>500 mg/kg soil
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Other aquatic

spp.	<i>Eastern oysters</i>	3.4 mg/l
EC ₅₀ (96 h)	<i>Mysid shrimps</i>	0.018 mg/l
ErC ₅₀ (14 d)	<i>Lemna gibba</i>	0.0045 mg/l

ENVIRONMENTAL EFFECTS

Based on information for the active ingredient

Plants: Plant metabolism study demonstrated that residue levels at harvest are very low and comprise mainly a non-toxic metabolite.

Persistence and degradability: Mean DT₅₀ for Isoxaflutole = 2.3 days; for its biologically active diketonitrile metabolite = 46 days. Mean field DT₅₀ for Isoxaflutole = 1.3 days; for its biologically active diketonitrile metabolite = 11.5 days.

Bio-accumulative potential: Not determined.

Mobility in soil: Isoxaflutole and its major metabolites are potentially mobile in soil under simulated high rainfall.

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: Invert the empty container over the spray or mixing tank. 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.

Plastic bag: Turn the bag inside out. Hold the bag over the spray or mixing tank and rinse the bag with running water for thirty seconds. Shake the rinsate off into the tank. Repeat the rinsing twice. Cut the bag into pieces and dispose of via an approved collector or recycler (www.croplife.co.za). Do not bury, burn or donate the bag to any other parties that may use it as container for foodstuffs.

14. TRANSPORT INFORMATION

UN Number: 3077

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Road Transport ADR / ORD:

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

Maritime Transport IMDG / IMO:

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

Special / Environmental Precautions: Wedge drums tightly to avoid movement.

Transport in bulk: Refer to MARPOL 73/78, Annex II and the IBC code.

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: December 2020

Reviewed: April 2024

Revision no.: (3)

Next revision date: April 2029

For detailed information on revisions, contact the Registration holder.

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, 12, 15, 20, 25 and 50 kg plastic containers and bags, labelled according to South African regulations and guidelines.

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H412: Harmful 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