

KUDOS® 100 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Kudos® 100 WDG

Recommended use: Plant Growth Regulator
Other identifier: Gibberellins GA4/7 100 g/ℓ
Restrictions on use: Agriculture

Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, 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

The most important adverse effects:
Physiochemical effects: None known.
Human health effects: None known.
Label elements: No label elements.
Signal word: No signal word.
Hazard statements: No hazard statements.
Precautionary statements: No precautionary statements.
Special labelling of certain mixtures: None known.
Other hazards: None known.
Toxicity:
 Classification according to GHS: Unclassified.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition: No hazardous components within this mixture.

4. FIRST AID MEASURES AND PRECAUTIONS

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 necessary.
Inhalation: Remove source of contamination or move victim to fresh air and assist breathing as needed. Keep person warm and at rest. Treat symptomatically and

supportively as and when required. Seek medical attention if irritation occurs.

Skin contact: Remove contaminated clothing, shoes and wash before reuse. Wash skin gently and thoroughly with soap and water. Seek medical advice if necessary.

Eye contact: Flush eyes with large amounts of gently flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, get medical attention.

Ingestion: Have victim rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Seek medical attention if person feels unwell.

Anticipated acute effects: None known.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use carbon dioxide, dry chemical or foam. Water spray can be used for cooling of unaffected stock but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading.

Unsuitable Extinguishing Media: Solid stream water.

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. Avoid pollution of waterways by run-off from the site.

Personal protective equipment: Fire may produce irritating or poisonous vapours or gases (oxides of chlorine and sulphur) or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use with caution. Follow label instructions.

Protective equipment: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental precautions: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Methods and Materials for Containment: Contain spilled product by diking area with sand or earth.

KUDOS® 100 WDG

SAFETY DATA SHEET

Methods and Materials for Clean-up: 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.

Eye Protection: The use of goggles or a face shield is advised.

Skin and body Protection: It is advised to wear appropriate protective (impervious) clothing; overalls or long-sleeves uniform, boots, hat and equipment to prevent repeated or prolonged skin contact with this substance. Do not wear leather clothing.

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

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling:

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: 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 again.

Storage: Store in its original container in dry, cool, well-ventilated area. Do not store near heat, open flame or hot surface. Store in original containers only. Not to be stored next to foodstuffs, feed and water supplies. Keep out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

Incompatible substances and mixtures: Strong acids, alkaline solutions and oxidizing materials.

Packaging material: Plastic containers or bags.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow, free-flowing cylindrical granules, free from visible extraneous matter and hard lump.

Odour: None.

pH (1% aqueous dilution): 6.3 at 22 °C.

Melting point: Not available.

Freezing Point: 0 °C.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not flammable.

Upper/lower explosion limits: Not explosive.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density / Relative density: 0.50 - 0.65 g/cm³ at 20 °C.

Solubility: Soluble in water

n-octanol / water partition coefficient: Not available.

Auto-ignition temperature: Not available.

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: Avoid accidental contact with strong acid or alkaline solutions or oxidising materials.

Hazardous Decomposition Products: Not known.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Oral LD₅₀ (24h) > 5000 mg/kg (rat)

Dermal LD₅₀ > 2000 mg/kg (rabbit)

Inhalation LC₅₀ (4h) > 9.7 mg/l (rat)

Skin Irritation / Corrosion: Not calculated.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration: No occupational exposure limits has 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. 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 dust exposure wear a suitable dust mask.

Hand Protection: This product should not be toxic through skin exposure or cause skin irritation, but chemically protective gloves may be worn as a precautionary measure.

KUDOS® 100 WDG

SAFETY DATA SHEET

Eye Damage / Irritation: Not calculated.
Skin Sensitization: Not calculated.
Respiratory Sensitization: Not calculated.
Reproductive cell mutagenicity: Not calculated.
Carcinogenicity: Not calculated.
Reproductive toxicity: Not calculated.
Specific target organ toxicity – single exposure: Not calculated.
Specific target organ toxicity – repeated exposure: Not calculated.
Aspiration hazard: Not calculated.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: None known.
Ingestion: None known.
Other information: None.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

Active ingredient: Prohexadione-calcium

Fish:

LC ₅₀ (96 h)	Rainbow trout	>100 mg/l
	Bluegill sunfish	>100 mg/l

Daphnia:

EC ₅₀ (48 h)		>100 mg/l
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Algae:

EC ₅₀ (72 h)	Green algae	>100 mg/l
	<i>Anabaena flos-aquae</i>	>1.2 mg/l

Birds:

Acute oral LD ₅₀	Mallard ducks	>2000 mg/kg
	Bobwhite quail	>2000 mg/kg
Dietary LD ₅₀ (5d)	Mallard ducks	>5200 mg/kg diet
	Bobwhite quail	>5200 mg/kg diet

Bees:

LD ₅₀ contact	<1.3 µg/bee
LD ₅₀ oral	<1.3 µg/bee

Worms:

LC ₅₀	>1000 mg/kg
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ENVIRONMENTAL EFFECTS (indicate if this is only for the active ingredient)

Based on information for the active ingredient:

Plants: Rapid and intensive metabolism by oxidation, ether cleavage and desalkoxylation of the side-chain. The sulfoxide is the major metabolite in samples harvested immediately after application, whereas, at later growing stages, very polar metabolites predominate in all matrices.

Persistence and degradability: Not determined.

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. Never pour untreated waste or surplus products 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/bags retain vapour and product residues. Packaging and containers must be completely emptied before being disposed of. Shake out thoroughly into the mixing tank and destroy the empty packaging in a safe way. Never re-use the empty packaging and containers for any other purpose. Observe all labelled safeguards until container is destroyed.

14. TRANSPORT INFORMATION

UN Number: Not regulated.

Road Transport ADR/IRD:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

Maritime Transport IMDG/IMO:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

Marine Pollutant (Y/N): Not a marine pollutant.

Air Transport IATA/ICAO:

Class: Not classified.

Packaging group: III

UN Proper Shipping Name: Not classified.

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

Packing and Labelling: Packed in 1, 2.5, 5, 10, 15 and 20 kg plastic/paper containers and bags labelled according to the South African regulations and guidelines.

KUDOS® 100 WDG

SAFETY DATA SHEET

Other hazard statements, abbreviations and explanations:

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 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.