

VILLA MARGIN 300 WDG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: MARGIN 300 WDG
Other identifier: Indoxacarb 300 WDG
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
 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:

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
Health		
Oral	Acute Tox. 5	H303
Inhalation	Acute Tox. 5	H333
Specific Target Organ Toxicity Repeated Exposure	STOT RE 1	H372
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:

Causes damage to organs (blood, nervous system, heart) through prolonged or repeated exposure.

Label elements:



Signal word: Danger.

Hazard statements:

H303: May be harmful if swallowed.
 H333: May be harmful if inhaled.
 H372: Causes damage to organs (blood, nervous system, heart) through prolonged or repeated exposure.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P260: Do not breathe mist, vapours and spray.
 P264: Wash hands and face thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 P273: Avoid release into the environment.
 P391: Collect spillage.
 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:

Classification according to GHS: Cat. 5
 Classification according to WHO: Cat. III
 Classification according to GPIC (Active): Cat. III

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (M/m %)	Classification EC 1272/2008
Indoxacarb TC	173584-44-6	30%	Acute Tox. 3 (H301) Skin Sens. 1B (H317) Acute Tox. 4 (H332) STOT RE 1 (H372) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

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Sodium alkyl sulfonate	97489-15-1	≤5.0%	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)
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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 plastic 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 bunker gear.

4. FIRST AID MEASURES

Inhalation:

Immediately remove source of contamination or move victim to fresh air. If breathing has stopped, call an ambulance, then perform artificial respiration, preferably by mouth-to-mouth, if possible. **Get medical attention immediately.**

Skin:

Remove contaminated clothing and shoes. Gently wipe of excess chemical. Wash skin with plenty of water and with non-abrasive soap or mild detergent until no evidence of chemical remains. Get medical advice if irritation occurs.

Eyes:

Immediately flush eyes with large amount of flowing cold water or normal saline solution, occasionally lifting upper and lower lids, until no evidence of chemical remains for 15 to 20 minutes. Get medical attention if irritation persists.

Ingestion:

If swallowed, have the victim to drink large quantity of water if able to swallow. Do not induce vomiting unless told to do so by a physician. Do not give anything by mouth to an unconscious person. **Get medical attention immediately.**

Anticipated acute effects:

None known.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: Treat symptomatically. No specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Extinguish fires with carbon dioxide, dry powder, or alcohol-resistant foam.

Unsuitable Extinguishing Media: Water. Use water spray 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 fumes/dust from burning materials. Remove plastic bags/plastic container from fire area if possible and without

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. Do not breathe in spray mist or dust. Ventilate area of spill or leaks, 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 very toxic to aquatic organisms and will cause long-term adverse effects in the aquatic environment. Any spillage or uncontrolled discharge 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 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/bag. 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 eyes and skin. Ensure adequate ventilation during handling and use. Do not handle broken containers/bags without protective equipment. Immediately clean up spills that occur during handling. Keep containers tightly 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 out of reach of unauthorised persons, children and animals. Store in its bag/original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excessive 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 bags or containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Kaolin	10 mg/m ³ (total) 5 mg/m ³ (resp)	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.

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 with cartridges/canisters approved for organic vapours/mist/dust.

Hand Protection: The use of chemically resistant protective rubber gloves is recommended to prevent the substance against skin contact.

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

Skin and Body Protection: Employee must wear appropriate protective clothing, e.g.; overalls, rubber boots,

hat and other 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 eyewash fountain or appropriate alternative within the immediate work area for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Pale khaki, cylindrical, flowable particles.

Odour: Chemical odour.

pH (1% aqueous dilution): 6.0-9.0

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not available.

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 - 0.70 g/ml.

Solubility: Not available.

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: This product is stable for 2 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: Flames, fire and high temperatures.

Incompatible Materials: Incompatible with alkaline pesticides.

Hazardous Decomposition Products: Nitride, chloride, carbon dioxide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Formulated product.

Based on experimental data.

Oral LD₅₀ (24 h) rat >2000 mg/kg.

Dermal LD₅₀ (24 h) rat >5000 mg/kg.

Inhalation LC₅₀ (4 h) rat >5.0 mg/l.

Skin Irritation/Corrosion: Non-irritating to skin.

Eye Irritation/Corrosion: Non-irritating to eyes.

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Skin Sensitization: non-sensitizer to guinea pigs.
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: Causes damage to organs (blood, nervous system, heart) through prolonged or repeated exposure.
Aspiration hazard: Not available.
Chronic Effects: Not available.
POTENTIAL ADVERSE EFFECTS:
Inhalation: May be harmful if inhaled.
Skin contact: Non-irritating to skin.
Eye contact: Non-irritating to eyes.
Ingestion: May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Based on the active ingredient.

Indoxacarb.

Fish:

LC ₅₀ (96 h)	Bluegill sunfish	0.9 mg/l.
	Rainbow trout	0.65 mg/l.

Daphnia:

EC ₅₀ (48 h)		0.60 mg/l.
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Algae:

EC ₅₀ (96 h)		>0.11 mg/l.
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Birds:

Acute oral LD ₅₀	Bobwhite quail	98 mg/kg.
Dietary LC ₅₀ (5d)	Mallard ducks	>1803 mg/kg.
	Bobwhite quail	340 mg/kg.

Bees:

(LD ₅₀ , mg/bee)	(oral)	0.26 mg/bee.
	(contact)	0.094 mg/bee.

Worms:

LC ₅₀ (14 d)		>1250 mg/kg.
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Plants:

 Not determined.

ENVIRONMENTAL EFFECTS:

Animal: Most of the dose was excreted within 96 hours. Extensive metabolism to numerous minor metabolites occurs. In urine, metabolites were cleaved products (indane or trifluoromethoxyphenyl ring products), whilst, in faeces, major metabolites retained both these moieties. Major metabolic reactions included hydroxylation of the indane ring, hydrolysis of the carboxymethyl group from the amino nitrogen, and opening of the oxadiazine ring, which gave rise to cleaved products.

Persistence and degradability: DT₅₀ 17 d in tana silt loam soil. Indoxacarb is considered to be moderately persistent; aerobic DT₅₀ 3-23 d, anaerobic DT₅₀ 186 d. It is considered to be immobile; K_{oc} 3300-9600 ml/g. K_d

26-95 l/kg (EU Rev. Rep.). DT₅₀ for aquatic photolysis 3.0 d (pH 5.0).

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 this product or used containers/bags. Comply with local legislation applying to waste disposal. The product containers/bags may be taken to a registered waste disposal site or incineration plant.

Container: Emptied containers/bags retain dust and product residues. Do not re-use the empty container/bag for any other purpose. Empty containers by inverting the 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. Destroy the container by perforating and flattening and dispose of through an approved waste dumpsite, 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.
(Indoxacarb 300 g/kg WDG)

Maritime Transport IMDG/IMO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.
(Indoxacarb 300 g/kg WDG)

Marine Pollutant (Y/N): YES

Air transport IATA/ICAO:

Class: 9
 Packaging group: III
 UN Proper Shipping Name: Environmentally Hazardous Substance, Solid, N.O.S.
(Indoxacarb 300 g/kg WDG)

Special/Environmental Precautions: None known.

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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 250 g, 500 g, 1, 5, 10, 20 & 25 kg Plastic bag in fibre drums OR Plastic Bags OR Plastic Containers and labelled according to the South African regulations and guidelines.

Additional H-statement (s) (formulants)

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic reaction.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H412: Harmful 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

Compiled: November 2017

Reviewed: March 2019

Revision no.: (3)

Next revision: March 2024

For detailed information on revisions, contact the Registration holder.