

VILLA PLATOON® 100 GR

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PLATOON® 100 GR
Other identifier: Oxamyl 100 GR
Recommended use: Insecticide
Restrictions on use: Agriculture

Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 10413
 Aston Manor, 1630, South Africa

Telephone: (011) 3962233
Fax: (011) 3964666
Website: www.villacrop.co.za

Emergency telephone numbers:
24 Hr Transport / Spill emergency no:
 Griffon Poison Information Centre +27 82 446 8946
 (Client: Villa Crop Protection)
Poisoning:
 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. 2	H300
Inhalation	Acute tox. 3	H331
Carcinogenicity	Carc. 2	H351
Specific Target Organ Toxicity Repeated Exposure	STOT RE 2	H373
Environment		
Aquatic chronic	Aquatic chronic 3	H412

The most important adverse effects:
Physiochemical effects:
 None known
Human health effects:
 Fatal if swallowed.
 Toxic if inhaled.
 Suspected of causing cancer.
 May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed.



Signal word: Danger.

Hazard statements:

H300: Fatal if swallowed.
 H331: Toxic if inhaled.
 H351: Suspected of causing cancer.
 H373: May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed.
 H412: Harmful to aquatic life with long lasting effects.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.
 P261: Avoid breathing mists, vapours or spray.
 P264: Wash hands and face thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.
 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+P310: IF SWALLOWED: Immediately call a POISON CENTER.
 P304/340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P308/313: If exposed or concerned: Get medical attention.
 P330: Rinse mouth.
 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:

Classification according to GHS: Category 2
 Classification according to WHO: Category IB
 Classification according to GPIC (Active): IB

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture
Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Oxamyl TC	23135-22-0	10%	Acute Tox. 2 (H300) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Aquatic Chronic 2 (H411)
Citric acid	77-92-2	< 1%	Eye Irrit. 2 (H319)
Diethylene glycol	111-46-6	< 5%	Acute Tox 4 (H302) STOT RE 2 (H373)
Attapulгите carrier	12174-11-7	> 80%	Carc. 2 (H351)

VILLA PLATOON® 100 GR

SAFETY DATA SHEET

4. FIRST AID MEASURES

Remove the victim from the area of exposure. Wash off remaining material with water. In the event of any complaints or symptoms, avoid further exposure and immediately consult a doctor.

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention if affected person feels unwell.

Skin: Remove contaminated clothing and wash before re-using.

Eyes: Flush eyes with clean water if irritation occurs. If present, remove contact lenses and continue rinsing.

Ingestion: Immediately seek medical attention or call a poison control centre for treatment advice. Drink 1 or 2 glasses of water. 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 person.

Anticipated acute effects: Fatal if swallowed. Toxic if inhaled.

Anticipated delayed effects: Suspected of causing cancer. May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed.

Most important symptoms/effects: Breathing difficulties, sweating, slow pulse, headache, blurred vision, muscle twitching and constriction of pupils.

Advice to physician: This product is a cholinesterase inhibitor carbamate. Antidote: Administer atropine sulphate until complete atropinisation. As contra-indications: Morphine, oxime and 2-PAM therapy.

5. FIRE-FIGHTING MEASURES

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

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

Specific hazards: In case of fire and/or explosion do not breath fumes.

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: Do not breathe in fumes.

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: Keep spilled product from entering sewers, waterways or ground water. This product is classified to be harmful to aquatic organisms with long-term adverse effects in the aquatic environment. Any spillages or uncontrolled discharges into water courses 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.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Fatal if swallowed. 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 again.

Storage:

Conditions for safe storage: Store in its original container in dry, cool, well-ventilated area. Avoid excess heat. Not to be stored next to foodstuffs, feed and water supplies. Store locked up out of reach of children, uninformed persons and animals. Do not contaminate other pesticides and fertilizers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: Plastic bags/ containers.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Permissible concentration

VILLA PLATOON® 100 GR

SAFETY DATA SHEET

Components	Exposure limits	Type of exposure limit	Source
Phosphoric acid	1 mg/m ³ (ST) 3 mg/m ³	8 hour TWA	OSHA PEL
Attapulgite carrier	0.1 mg/m ³	TWA	OSHA PEL

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 OSHA PELs 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: Use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapours.

Hand Protection: No skin irritation or symptoms due to skin exposure should occur, but as a safety precaution the use of gloves is recommended to prevent against skin contact.

Eye Protection: No eye irritation should occur, but 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 and boots as a general rule when working with pesticides.

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: Irregularly shaped granules: visibly dry and essentially non-dusty. Homogeneous mix of granules varying slightly in colour, with an overall beige or pale brown appearance.

Odour: Faint odour.

pH (1% aqueous dilution): 6.3 @ 23 °C.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not available.

Upper/lower explosion limits: Not applicable.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.
Density: Not available.
Solubility: Not applicable.
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: 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: Dust may form explosive mixture in air.

Conditions to Avoid: Extreme heat or exposure to flames. Keep containers tightly sealed.

Incompatible Materials: Not available.

Hazardous Decomposition Products: Nitrogen oxides and carbon oxides.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Calculated according to GHS

Oral LD₅₀ rat > 25 mg/kg.

Dermal LD₅₀ rabbit > 19 000 mg/kg.

Inhalation LC₅₀ rat > 0.55 mg/l.

Skin Irritation/Corrosion: No skin irritation should occur.

Eye Damage/Irritation: No eye irritation should occur.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: Product is not a respiratory sensitizer.

Reproductive cell mutagenicity: Not available.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not available.

Specific target organ toxicity – single exposure: Not available.

Specific target organ toxicity – repeated exposure: May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed.

Aspiration hazard: Not available

Chronic Effects (other targets e.g. developmental): Not available.

POTENTIAL ADVERSE EFFECTS:

Breathing difficulties, sweating, slow pulse, headache, blurred vision, muscle twitching and constriction of pupils.

Ingestion: May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed.

VILLA PLATOON® 100 GR

SAFETY DATA SHEET

12: ECOLOGICAL INFORMATION

This product is harmful to aquatic organisms with long lasting effects in the aquatic environment.

ECOTOXICITY DATA: (Active ingredient)

Fish:

LC ₅₀ (96 h)	Bluegill sunfish	5.6 mg/ℓ
	Rainbow trout	4.2 mg/ℓ

Daphnia:

LC ₅₀ (48 h)		0.319 mg/ℓ
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Algae:

EC ₅₀ (72 h)		3.3 mg/ℓ
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Birds:

Acute oral LD ₅₀	Male mallard ducks	3.83 mg/kg
	Female mallard ducks	3.16 mg/kg
	Northern bobwhite quail	9.5 mg/kg
Dietary LC ₅₀ (8 d)	Bobwhite quail	340 ppm
	Mallard ducks	766 ppm

Bees: Toxic to bees;

LD ₅₀ (48 h, oral)		0.38 µg/bee
(48 h, contact)		0.47 µg/bee

Worms:

LC ₅₀ (14 d)		112 ppm
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Plants:

In plants, oxamyl hydrolyses to the corresponding oximino compound which, in turn, conjugates with glucose. Total breakdown into natural products has been demonstrated (J. Harvey *et al.*, *J. Agric. Food Chem.*, 1978, 26, 529–536).

ENVIRONMENTAL EFFECTS:

Persistence and degradability: Degraded rapidly in soil, DT₅₀ c. 7 d. DT₅₀ in groundwater (lab. study) 20 d (anaerobic), 20–400 d (aerobic) (J. H. Smelt *et al.*, *Pestic. Sci.*, 1983, 14, 173–181). K_{oc} 25.

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.

Container: Emptied containers retain dust and product residues. Do not re-use the empty container for any other purpose. Triple rinse empty containers by inverting the empty container where it is used. Thereafter, rinse the container three times with a volume of water equal to a minimum of one third of that of the container. Empty the rinsings in the area where the pesticide is being used

before recycling or destroying the container in the prescribed manner. Destroy the container by perforating and flattening and dispose of through an approved incineration plant or recycling company. Observe all labelled safeguards until container is destroyed.

14: TRANSPORT INFORMATION

UN Number: 2757

Road Transport ADR/IRD:

Class:	6.1
Packaging group:	II
UN Proper Shipping Name:	Carbamate pesticide, solid, toxic.

Maritime Transport IMDG/IMO:

Class:	6.1
Packaging group:	II
UN Proper Shipping Name:	Carbamate pesticide, solid, toxic.

Marine Pollutant (Y/N): Yes, this product is considered a marine pollutant.

Air Transport IATA/ICAO:

Class:	6.1
Packaging group:	II
UN Proper Shipping Name:	Carbamate pesticide, solid, toxic.

Special/Environmental Precautions: Not available.

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 1, 2, 2.5, 5, 10, and 20 kg plastic bags or containers, labelled according to South African regulations and guidelines.

Additional H statements (formulants):

- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H319: Causes serious eye irritation.
- H330: Fatal if inhaled.
- 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.

VILLA PLATOON® 100 GR

SAFETY DATA SHEET

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.