

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); May only be sold and used by a registered pest control operator.

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. 2	H300
Dermal	Acute tox. 4	H312
Inhalation	Acute tox. 2	H330
Carcinogenicity	Carc. 2	H351
Environment		
Aquatic chronic	Aquatic chronic 2	H411

The most important adverse effects:

Physiochemical effects:

None known

Human health effects:

Fatal if swallowed.

Fatal if inhaled.

Harmful in contact with skin.

May cause respiratory irritation.

Label elements:



Signal word: Danger.

Hazard statements:

H300: Fatal if swallowed.

H312: Harmful in contact with skin

H331: Fatal if inhaled.

H351: Suspected of causing cancer.

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P202: Do not handle until all safety precautions have been read and understood.

P203: Obtain, read and follow all safety instructions before use.

P261: Avoid breathing dust, fume, gas, 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.

P301+P316: IF SWALLOWED: Get emergency medical help immediately.

P302+P352: IF ON SKIN: Wash with plenty water and non-abrasive soap.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P316: Get emergency medical help immediately.

P317: Get medical help.

P318: IF exposed or concerned, get medical advice.

P330: Rinse mouth.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

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

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Composition:

Chemical Name	CAS	Conc. (m/m %)	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) STOT SE 2 (H335)
Diethylene glycol	111-46-6	< 5%	Acute Tox 4 (H302)
Attapulgate carrier	12174-11-7	> 80%	Carc. 2 (H351)

4. FIRST AID MEASURES

Immediately remove the patient from the source of poisoning to a cool, well-ventilated area and keep him/her calm and reassured. Remove contaminated clothing and rinse contaminated body area thoroughly with plenty of soap and water. If breathing has stopped, give mechanical artificial respiration (not direct mouth-to-mouth). Qualified personnel should perform administration of oxygen. Get medical attention immediately.

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 immediately and rinse contaminated body area thoroughly with plenty of soap and cold water, followed by alcohol. Do not rub the skin. Emergency personnel should wear gloves and avoid contamination.

Eyes: Flush contaminant out of eyes with clean lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or on to the face.

Ingestion: If swallowed, rinse mouth thoroughly with water and immediately get medical attention. If the person is alert and respiration is not depressed, give 1 to 2 glasses of water. Induce vomiting by tickling the back of the throat and keep the patient's head below hips to prevent aspiration. Vomiting should continue until vomit is clear and free from the smell of poison. Establish and maintain airway. **Never** apply direct mouth to mouth

respiration or give anything by mouth to an unconscious person.

Anticipated acute effects: Fatal if swallowed. Fatal if inhaled. Harmful in contact with skin. May cause respiratory irritation.

Anticipated delayed effects: Suspected of causing cancer.

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. Avoid contact with skin.

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.

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

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. Do not flush spilled material into drains. Keep spectators away.

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.

7. HANDLING AND STORAGE

Handling:

Precautions for safe handling: Fatal if swallowed. Fatal if inhaled. Avoid contact with skin and eyes. 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

Components	Exposure limits	Type of exposure limit	Source
Attapulgit 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: 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.

Hand Protection: As a safety precaution the use of gloves is recommended to prevent against skin contact.

Eye Protection: 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 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,

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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 > 23 mg/kg.

Dermal LD₅₀ rabbit > 1300 mg/kg.

Inhalation LC₅₀ rat > 0.5 mg/l.

Skin Irritation/Corrosion: Harmful in contact with skin.

Eye Damage/Irritation: No eye irritation should occur.

Skin Sensitization: Product is not a skin sensitizer.

Respiratory Sensitization: May cause respiratory irritation.

Reproductive cell mutagenicity: Not classified.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: Not classified.

Specific target organ toxicity – single exposure: May cause respiratory irritation.

Specific target organ toxicity – repeated exposure: not classified.

Aspiration hazard: Not classified.

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.

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:

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.

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). 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. 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. Triple rinse empty containers by inverting the empty container over the spray or mixing tank and allow draining for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner. 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. Observe all labelled safeguards until container is destroyed.

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14: TRANSPORT INFORMATION

This product is considered a marine pollutant.

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): Y

Air Transport IATA/ICAO:
Class: 6.1
Packaging group: II
UN Proper Shipping Name: Carbamate pesticide, solid, toxic.

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

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

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 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: March 2019
Reviewed: January 2025
Revision no.: (3)
Next revision date: January 2030

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

Other hazard statements, abbreviations and explanations:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation

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.