

# PLATOON® 100 SL

# SAFETY DATA SHEET

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** PLATOON® 100 SL  
**Other identifier:** Oxamyl 100 SL  
**Recommended use:** Insecticide  
**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](http://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
<b>Physical</b>		
Flammable	Flam. Liq. 3	H226
<b>Health</b>		
Oral	Acute Tox. 2	H300
Dermal	Acute Tox. 5	H313
	Skin Irrit. 3	H316
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 2	H330
Specific Target Organ Toxicity Single Exposure	STOT SE 2	H370
<b>Environment</b>		
Aquatic chronic	Aquatic Chronic 3	H412

**The most important adverse effects:**  
**Physicochemical effects:**  
 Flammable liquid and vapour.  
**Human health effects:**  
 Fatal if inhaled.  
 Fatal if swallowed.

Causes serious eye damage.  
 May cause damage to organs.

### Label elements:



**Signal word:** Danger

### Hazard statements:

H226: Flammable liquid and vapour.  
 H300: Fatal if swallowed.  
 H313: May be harmful in contact with skin.  
 H316: Causes mild skin irritation.  
 H318: Causes serious eye damage.  
 H330: Fatal if inhaled.  
 H370: May cause damage to organs.  
 H412: Harmful to aquatic life with long lasting effects.

### Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P233: Keep container tightly closed.  
 P260: Do not breathe mist/spray.  
 P264: Wash skin and eyes thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P273: Avoid release to the environment.  
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.  
 P284: In case of inadequate ventilation wear respiratory protection.  
 P301/P310: IF SWALLOWED: Immediately call a POISON CENTER.  
 P302/352: IF ON SKIN: Wash with plenty of water and soap.  
 P303/361/353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [shower].  
 P304/340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.  
 P308+P311: IF exposed or concerned: Call a POISON CENTER.  
 P310: Immediately call a POISON CENTRE.  
 P330: Rinse mouth.  
 P332/313: If skin irritation occurs: Get medical attention.

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P362/364: Take off contaminated clothing and wash it before reuse.

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

P403/235: Store in a well-ventilated place. Keep cool.

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: Category IB

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

#### Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Oxamyl	23135-22-0	10.54	Acute Tox. 2 (H300) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Aquatic Chronic. 2 (H411)
Sodium dodecylbenzene sulfonate	25155-30-0	> 5	Acute Tox.4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
Menthol	67-56-1	>5	Flam. Liq. 2 (H225) Acute Tox. 3 (H 301) Acute Tox. 3 (H311) STOT SE 2 (H371)
Water	7732-18-5	>60	Not classified

### 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. **Immediately consult a doctor.**

**Inhalation: Immediately seek medical attention or call a poison control centre for treatment advice.** Maintain airway and administer oxygen if available. Keep affected person warm and at rest.

**Skin:** Remove contaminated clothing, shoes and leather goods 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 contamination out of eyes with clean lukewarm, gently flowing water for at least 20 minutes, while holding eyelid(s) open. If present, remove contact lenses after 5 minutes and continue rinsing. Take care not to rinse contaminated water into the unaffected eye or on to the face. **Seek medical attention immediately.**

**Ingestion: Immediately seek medical attention or call a poison control centre for treatment advice.** 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. If the person is alert, rinse mouth thoroughly with water.

**Anticipated acute effects:** nausea, vomiting, diarrhoea, abdominal cramps, headache, vertigo, tightness of the chest, anxiety, ocular pain, ciliary muscle spasm, blurred vision, small pupils, or mydriasis, lacrimation, salivation, sweating and confusion.

**Anticipated delayed effects:** bradycardia, hypotension, pulmonary oedema, convulsions, coma and death from respiratory failure or cardiac arrest.

**Most important symptoms/effects:** None known.

**Advice to physician:** If consciousness level declines or vomiting has not occurred in 15 minutes, empty stomach by gastric lavage. Avoid aminoglycosides and succinylcholine. Phenothiazines, reserpine, theophylline, morphine, Pralidoxime (2-PAM, Protopam) and other oximes are contra-indicated.

**Antidote:** Administer atropine sulphate intravenously or intramuscularly. In moderately to severe poisoning, administer atropine sulphate, 0.4 to 2.0 mg repeated every 15 minutes, until atropinisation is achieved (dry, flushed skin, dry mouth and tachycardia). Maintain atropinisation by repeated doses for 2 to 12 hours, or longer, depending on the severity of poisoning.

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Use carbon dioxide or dry chemical for small fires and water fog or foam for large fires.

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

**Specific hazards:** Obnoxious and toxic fumes. Vapours released on heating can form explosive mixtures with air.

**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

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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:** Avoid contact with skin and eyes. Do not breathe in spray mist or dust/fumes/vapours. Ventilate area of spill or leak, 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 harmful to aquatic organisms and may 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:** Contain spilled product by diking area with sand or earth.  
**Methods and Materials for Clean-up:** Cover contained spill with an inert absorbent material such as sand, vermiculite, earth or other appropriate material. 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.

## 7. HANDLING AND STORAGE

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

### 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. Avoid heat, hot surfaces, sparks, open flames and other ignition surfaces. Avoid cross contamination with other pesticides and fertilisers.

**Incompatible substances and mixtures:** Refer to product label.

**Packaging material:** Fluorinated plastic containers.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Permissible concentration

Components	Exposure limits	Type of exposure limit	Source
Solvent	200 ppm	TWA (8hours)	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 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 an organic cartridge respirator suitable for protection from mists/ vapours of pesticides if inhalation is likely to occur.

**Hand Protection:** Employee must wear appropriate chemically resistant gloves e.g. nitrile rubber gloves to prevent contact with this mixture.

**Eye Protection:** Wear a face shield when handling the concentrate and when applying the product. The use of safety goggles is recommended if a face shield is not used.

**Skin and Body Protection:** The use of protective (impervious) clothing e.g. coveralls is recommended to prevent skin contact with this mixture.

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**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:** Green soluble liquid  
**Odour:** Slight sulphurous.  
**pH (1% aqueous dilution):** 3.6 at 10 g/l (25 °C).  
**Melting point:** Not available.  
**Freezing Point:** 0 °C.  
**Boiling Point:** Not available.  
**Flash Point:** 23 °C.  
**Flammability:** Flammable liquid and vapour.  
**Upper/lower explosion limits:** Not available  
**Vapour Pressure (mm Hg):** Not available.  
**Relative Vapour Density:** Not available.  
**Density:** 0.966 g/cm<sup>3</sup> at 20 °C.  
**Solubility:** Emulsifies in water.  
**n-octanol/water partition coefficient:** Not available.  
**Auto-ignition temperature:** Not available.  
**Decomposition temperature:** Not available.  
**Viscosity:** 2-2.2 mPa.s at 25 °C

### 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:** Heating can release vapours that can be ignited.  
**Incompatible Materials:** Incompatible with oxidizing agents.  
**Hazardous Decomposition Products:** Carbon oxides, nitrogen oxides and hydrochloric acid. Vapours may form explosive mixture with air

### 11. TOXICOLOGICAL INFORMATION

**ACUTE TOXICITY:**  
**Calculated according to GHS**  
**Oral LD<sub>50</sub> (24 h) rat** 23.35 mg/kg.  
**Dermal LD<sub>50</sub> (24 h) rat** > 4443.78 mg/kg.  
**Inhalation LC<sub>50</sub> (4 h) rat** 0.43 mg/ℓ.  
**Skin Irritation/Corrosion:** Causes mild skin irritation  
**Eye Damage/Irritation:** Causes serious eye damage  
**Skin Sensitization:** Not available.  
**Respiratory Sensitization:** Not available.  
**Reproductive cell mutagenicity:** Not available.  
**Carcinogenicity:** Not available.

**Reproductive toxicity:** Not available.  
**Specific target organ toxicity – single exposure:** Causes damage to organs.  
**Specific target organ toxicity – repeated exposure:** Not available.  
**Aspiration hazard:** Not available  
**Chronic Effects** Not available.  
**POTENTIAL ADVERSE EFFECTS:**  
**Inhalation:** Fatal if inhaled.  
**Skin contact:** Causes mild skin irritation.  
**Eye contact:** Causes serious eye damage.  
**Ingestion:** Can be fatal if swallowed.

### 12. ECOLOGICAL INFORMATION

This product is toxic to aquatic life with long lasting effects.

#### ECOTOXICITY DATA:

##### Fish:

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

##### Daphnia:

EC <sub>50</sub> (48 h)		0.319 mg/l
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##### Algae:

EC <sub>50</sub> (72 h)		3.3 mg/l
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##### Birds:

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

##### Bees:

	Toxic to bees	
LD <sub>50</sub> contact		0.47µg/bee
LD <sub>50</sub> oral		0.38µg/bee

##### Worms:

LC <sub>50</sub> (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, DT<sub>50</sub> c. 7 d. DT<sub>50</sub> in groundwater (lab. study) 20 d (anaerobic), 20–400 d (aerobic) (J. H. Smelt *et al.*, *Pestic. Sci.*, 1983, 14, 173–181). K<sub>oc</sub> 25.

**Bio-accumulative Potential:** Not determined.

**Mobility in soil:** Not determined.

**Other adverse effects:** Not determined.

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## 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. Where possible, recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

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

## 14. TRANSPORT INFORMATION

**UN Number: 2991**

**Road Transport ADR/IRD:**

Class: 6.1  
 Packaging group: II  
 UN Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (**flammable**, carbamate, **Oxamyl** 100 g/l)

**Maritime Transport IMDG/IMO:**

Class: 6.1  
 Packaging group: II  
 UN Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (**flammable**, carbamate, **Oxamyl** 100 g/l)

**Marine Pollutant (Y/N):** Yes

**Air Transport IATA/ICAO:**

Class: 6.1  
 Packaging group: II  
 UN Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S. (**flammable**, carbamate, **Oxamyl** 100 g/l)

**Special/Environmental Precautions: None known.**

**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, 5, 10, 20 and 25 litres plastic containers, labelled according to South African regulations and guidelines.

**Additional H statements (formulants):**

**H225:** Highly flammable liquid and vapour.

**H301:** Toxic if swallowed.

**H302:** Harmful if swallowed.

**H311:** Toxic in contact with skin.

**H312:** Harmful in contact with skin.

**H315:** Causes skin irritation.

**H331:** Toxic 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. 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.