

PANGA 360 SL

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PANGA 360 SL
Other identifier: Glyphosate 360 SL
Recommended use: Herbicide
Restrictions on use: Agriculture / Industrial

Supplier: Villa Crop Protection (Pty) Ltd.
 PO Box 10431
 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
Eye	Eye Dam. 1	H318
Inhalation	Acute Tox. 5	H333
Environment		
Aquatic chronic	Aquatic chronic 2	H411

The most important adverse effects:

Physiochemical effects:

None known.

Human health effects:

Causes serious eye damage.

Label elements:



Signal word: Danger.

Hazard statements:

H303: May be harmful if swallowed.
 H318: Causes serious eye damage.
 H333: May be harmful if inhaled.
 H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P273: Avoid release to the environment.
 P280: Wear impervious rubber gloves and boots, protective clothing and chemical safety goggles.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTRE.
 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. U

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture.

Composition:

Chemical Name	CAS	Conc. (m/v %)	Classification EC 1272/2008
Glyphosate (95% min) dry basis	1071-83-6	36 %	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)
Alkoxylated fatty alkylamine polymer	68213-26-3	<20 %	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)

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 and consult a doctor.

Inhalation: If vapours or mists have been inhaled, move victim to fresh air and remove source of contamination if safe to do so. The patient should be kept under observation. Obtain medical attention if symptoms persist.

Skin: Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Wash skin gently and thoroughly with cold water and non-abrasive soap. Do not rub the skin. Obtain medical attention if irritation persists.

Eyes: Immediately flush eyes with clean, gently flowing lukewarm water or saline solution for 15-20 minutes, holding the eyelid(s) open. If present, remove contact

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lenses after 5 minutes and continue rinsing. **Seek medical attention immediately.**

Ingestion: Do not induce vomiting. Do not give anything by mouth to an unconscious person. Have victim rinse mouth thoroughly with water. Seek medical advice immediately showing container and label.

Anticipated acute effects:

Causes serious eye damage.

Anticipated delayed effects: None known.

Most important symptoms/effects: None known.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Water jet.

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 bunker gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with eyes and skin. 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 toxic 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 by diking area with sand, earth or silica gel.

Methods and Materials for Clean-up: Cover contained spill with an inert absorbent material such as sand, earth or other appropriate non-combustible 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 (i.e. organic solvent, detergent bleach or caustic). Add the solution to the drums already collected. Open burning or dumping of this material is prohibited. 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 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 product. 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 out of reach of unauthorised persons, children and animals. Store product in its original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Do not store near heat, open flame, sources of ignition or hot surfaces. Avoid cross contamination with other pesticides and fertilisers.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

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 product is used and on the extent of exposure. Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations

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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: Wear an organic cartridge respirator suitable for protection from mists/vapours of pesticides if product will be used in an area that is not well ventilated.

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

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

This product causes serious eye damage.

Skin and Body Protection: The use of protective (impervious) clothing e.g. coveralls, rubber boots, hat is recommended to prevent skin contact with this product.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this product; 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: Clear yellow liquid.

Odour: Mild halide odour.

pH (1% aqueous dilution): 4.4 to 5.0

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: None. Water based. Does not flash.

Flammability: Non-flammable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not available.

Relative Vapour Density: Not available.

Density: 1.171 g/ml.

Solubility: Completely miscible.

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 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. Partial crystallization may occur on prolonged storage below – 15 °C.

Reactivity: None known.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: Product is relatively stable in neutral, weakly acidic and weakly alkaline media, but reacts strongly (and possibly violently) with strong alkalis. Mixing with other products may reduce the activity of **Glyphosate**. Incompatible with galvanized steel and unlined mild steel materials for storage.

Hazardous Decomposition Products: Toxic oxides of carbon, nitrogen and phosphorus are released when the product decomposes on heating.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:

Based on GHS calculation.

Oral LD₅₀ (24h) > 3200 mg/kg

Inhalation LC₅₀ (4h) 16,2 mg/l (rat)

Skin Irritation/Corrosion: Not available.

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: Not available.

Specific target organ toxicity – repeated exposure: Not available.

Aspiration hazard: Not available.

Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: May be harmful if inhaled.

Eye contact: Causes serious eye damage.

Ingestion: May be harmful if swallowed.

12. ECOLOGICAL INFORMATION

This product is toxic to aquatic organisms, may cause long lasting effects in the aquatic environment.

ECOTOXICITY DATA:

Active ingredient. Glyphosate.

Fish:

LC ₅₀ (96 h)	Rainbow trout	38 mg/l.
	Bluegill sunfish	47 mg/l.
	Zebrafish	123 mg/l.
	Carp	>100 mg/l.

Daphnia:

LC₅₀ (48 h) 40 mg/l.

Algae:

E_bC₅₀ (72 h) Green algae (*Selenastrum capricornutum*) 485 mg/l.

(7 d) 13.8 mg/l.

E_rC₅₀ (72 h) 460 mg/l.

EC₅₀ (96 h) Marine algae (*Skeletonema costatum*) 1.3 mg/l.

(7 d)

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		0.64 mg/ℓ
EC ₅₀ (7 d)	Diatom (<i>Navicula pelliculosa</i>)	42 mg/ℓ
	Blue-green algae (<i>Anabaena flos-aquae</i>)	15 mg/ℓ
Birds:		
Acute oral LD ₅₀	Bobwhite quail	>3851 mg/kg.
Dietary LC ₅₀ (5 d)	Quail and ducks	>4640 mg/kg diet
Bees:		
LD ₅₀ (48 h)	(contact)	>100 µg/bee.
	(oral)	100 µg/bee.

Plants: Slowly metabolized to aminomethylphosphonic acid ([1066-51-9]), which is the major plant metabolite.

ENVIRONMENTAL EFFECTS:

Persistence and degradability: In soil (field), DT₅₀ 1-130 d, depending on edaphic and climatic conditions. In water, DT₅₀ varies from a few to 91 d. Photodegradation in natural water occurs, DT₅₀ 33-77 d; no substantial photodegradation in soil was recorded over 31 d. In lab. Whole system with water and sediment, DT₅₀ 27-146 d (aerobic), 14-22 d (anaerobic). The major metabolite in soil and water is aminomethylphosphonic acid.

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. 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. Invert the empty container over the spray or mixing tank and drain for at least 30 seconds after the flow has slowed down to dripping. Thereafter rinse the empty container three times in succession with one quarter of the container volume fresh water and decant the rinsate into the spray or mixing tank.

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.

14. TRANSPORT INFORMATION

UN Number: 3082
Road Transport ADR/IRD:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Glyphosate 360 g/ℓ)

Maritime Transport IMDG/IMO:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Glyphosate 360 g/ℓ)

Marine Pollutant (Y/N): Yes, Considered a marine pollutant.

Air transport IATA/ICAO:
Class: 9
Packaging group: III
UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (Glyphosate 360 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:
OHS 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, 25, 50 and 180 litres plastic fluorinated containers and PE lined metal drums labelled according to South African regulations and guidelines.

Additional H-statement (s) (formulants)
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

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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.