

VILLA GLYGRAN 710 SG

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: GLYGRAN 710 SG
Other identifier: Glyphosate 710 SG
Recommended use: Herbicide
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
Dermal	Skin Irrit. 3	H316
Skin Sensitizer	Skin Sens. 1B	H317
Eye	Eye Irrit. 2	H319
Inhalation	Acute Tox. 4	H332
Environment		
Aquatic chronic	Aquatic chronic 2	H411

The most important adverse effects:

Physiochemical effects:

None known.

Human health effects:

Causes serious eye irritation.

Label elements:



Signal word: Warning.

Hazard statements:

H303: May be harmful if swallowed.
H316: Causes mild skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H411: Toxic to aquatic life with long lasting effects.

Precautionary statements:

P264: Wash hands and face thoroughly after handling.
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.
P302/352: IF ON SKIN: Wash with plenty of water and non-abrasive soap.
P305/351/338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333/313: If skin irritation or rash occurs: Get medical advice.
P337/313: If eye irritation persists: Get medical advice.
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. 4.
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/m %)	Classification EC 1272/2008
Glyphosate ammonium salt	40465-66-5	82.63 %	Aquatic Chronic 2 (H411)
FAS C12-18, Na	68955-19-1	<5 %	Skin Irrit. 2 (H315) Aquatic Chronic 3 (H412)
Edetate	6381-	<5 %	Acute Tox. 4

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disodium	92-6		(H302) Acute Tox. 4 (H312) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) STOT SE 3 (H335) (respiratory track) Aquatic Chronic 3 (H412)
Ethylene diamine alkoxylate	26316-40-5	<10 %	Skin Sens. 1B (H317) Eye Irrit. 2 (H319)

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 not come into contact with the product and 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. Do not breathe in spray or fumes. 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 watercourses 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: 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 material. Wash hands before eating, drinking, chewing gum, smoking, using the toilet or

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

Skin: Remove contaminated clothing and shoes. Wash skin gently and thoroughly with cold water and non-abrasive soap. Obtain medical attention if irritation persists.

Eyes: Flush eyes with clean water for 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses and continue rinsing. Obtain medical attention.

Ingestion: Have victim rinse mouth thoroughly with water. Obtain medical advice, showing container and label, if patient feels unwell.

Anticipated acute effects: Causes serious eye irritation.

Anticipated delayed effects: None known.

Most important symptoms/effects: Include headache, vomiting and diarrhoea.

Advice to physician: There is no specific antidote available. Treat symptomatically and supportively. Remove by gastric lavage and catharsis, but not if victim is unconscious. Give oxygen if respiration is depressed.

5. FIRE-FIGHTING MEASURES

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

Unsuitable Extinguishing Media: Water.

Specific hazards: This product may emit toxic fumes when burned, including Carbon monoxide (CO), phosphorous oxides (P_xO_y) and nitrogen oxides (NO_x).

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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 original labelled container tightly closed, in an isolated, dry, cool and well-ventilated area. Avoid excessive heat. Avoid cross contamination with other pesticides and fertilisers. **Incompatible substances and mixtures:** Refer to product label.

Packaging material: Plastic bags and 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 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: 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.

Emergency eyewash: Where there is any possibility that an employee's eyes may be exposed to this mixture; 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: White to White Yellow granules.

Odour: Odourless.

pH (2% aqueous dilution): 4.0 @ 23°C.

Melting point: Not available.

Freezing Point: Not available.

Boiling Point: Not available.

Flash Point: Not applicable.

Flammability: Not applicable.

Upper/lower explosion limits: Not available.

Vapour Pressure (mm Hg): Not applicable.

Relative Vapour Density: Not applicable.

Relative density: 1.705 g/cm³ (20 °C)

Solubility: Soluble in water.

n-octanol/water partition coefficient: Not available.

Auto-ignition temperature: Not available.

Decomposition temperature: Not available.

Viscosity: Not applicable.

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.

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. Avoid strong oxidizing agents. 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:

Calculated according to WHO:

Oral LD₅₀ > 4400 mg/kg

Dermal LD₅₀ > 4300 mg/kg

Calculated according to GHS:

Oral LD₅₀ > 4700 mg/kg

Dermal LD₅₀ > 20 100 mg/kg

Inhalation LC₅₀ (4 h) rat >2.2 mg/l.

Skin Irritation/Corrosion: Causes mild skin irritation.

Eye Damage/Irritation: Causes serious eye irritation.

Skin Sensitization: May cause an allergic skin reaction.

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.

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Chronic Effects: Not available.

POTENTIAL ADVERSE EFFECTS:

Inhalation: Harmful if inhaled.

Skin contact: May cause mild irritation. No adverse effects expected when used as recommended.

Eye contact: May cause serious eye irritation.

Ingestion: May be harmful when ingested.

12. ECOLOGICAL INFORMATION

This product is toxic to aquatic organisms with long-term adverse effects in the aquatic environment.

ECOTOXICITY DATA: Glyphosate technical CAS: 1071-83-6.

Fish:

LC ₅₀ (96 h)	Trout	86 mg/ℓ
	Bluegill sunfish	120 mg/ℓ
	Harlequin fish	168 mg/ℓ
	Sheepshead minnows	>1000 mg/ℓ

Daphnia:

LC ₅₀ (48 h)		780 mg/ℓ
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Algae:

E _p C ₅₀ (72 h)	Green algae (<i>Selenastrum capricornutum</i>)	485 mg/ℓ (7 d) 13.8 mg/ℓ
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E _r C ₅₀ (72 h)		460 mg/ℓ
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EC ₅₀ (96 h)	Marine algae (<i>Skeletonema costatum</i>)	1.3 mg/ℓ (7 d) 0.64 mg/ℓ
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EC ₅₀ (7 d)	Diatom (<i>Navicula pelliculosa</i>)	42 mg/ℓ
	Blue-green algae (<i>Anabaena flos-aquae</i>)	15 mg/ℓ

Other aquatic

spp:

LC ₅₀ (96 h)	Mysid shrimps	>1000 mg/ℓ
	Grass shrimps	281 mg/ℓ
	Fiddler crabs	934 mg/ℓ
EC ₅₀ (96 h)	Sea urchins	>1000 mg/ℓ
EC ₅₀ (14 d)	Lemna gibba	25.5 mg/ℓ
EC ₅₀ (48 h)	<i>Litoria moorei</i>	111 mg/ℓ

Birds:

Acute oral LD ₅₀	Bobwhite quail	>3851 mg/kg
Dietary LC ₅₀ (5 d)	Quail and Ducks diet	>4640 mg/kg

Bees:

LD ₅₀ (48 h)	(contact)	>100 mg/bee
	(oral)	100 mg/bee

Plants: Slowly metabolised 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 dust and 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 or 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. Add the rinsing 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: 3077

Road Transport ADR/IRD:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S (Glyphosate)

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: Environmentally hazardous substance, solid, N.O.S (Glyphosate)

Marine Pollutant (Y/N): Yes

Air transport IATA/ICAO:

Class: 9

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Packaging group: III
UN Proper Shipping Name: Environmentally hazardous
substance, solid, N.O.S
(Glyphosate)

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 7.5, 15, 30, 60, 90, 100, 200, 250 & 500 g plus 1, 5, 10, 20 and 25 kg plastic bags or containers and labelled according to South African regulations and guidelines.

Additional H-statement (s) (formulants)

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H315: Causes skin irritation.

H335: May cause respiratory irritation.

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

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For detailed information on revisions, contact the Registration holder.