

SLASH HIGH-LOAD 600 SL

MATERIAL SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name: SLASH HIGH-LOAD 600 SL
Herbicide
UN No.: 3082
Supplier: Universal Crop Protection (Pty) Ltd.
Co. Reg. No.: 1983/008184/07
 PO Box 801,
 Kempton Park, 1620, 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. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name: Glyphosate
Chemical Name: N-(phosphonomethyl) glycine (IUPAC)
CAS No.: 70901-12-1
Chemical family: Glycine derivative
Chemical formula: C₃H₈KNO₅P
Molecular weight: 169.1
Mode of action: Non-selective, systemic herbicide absorbed through the leaves, with rapid translocation throughout the plant. Inactivated on contact with soil.
Formulation: Glyphosate 600 g/l Soluble Liquid
Hazardous composition:

Inert:	% Present
Glyphosate	±65.79 %
Potassium hydroxide	± 37.88 %

Symbol: X_n, Xi, N
Indication of danger: Harmful, irritating, environmentally dangerous substance
Risk Phrases: R 20, R22, R36, R43, R52, R53

3. HAZARD IDENTIFICATION

Toxicity class: WHO: III (a.i.). A low toxicity herbicide.
Likely routes of exposure: Skin contact, ingestion and inhalation.
Skin: Slightly irritant.
Eye contact: Moderately irritant.
Ingestion: Harmful if swallowed due to inert.
Inhalation: Harmful by inhalation.

4. FIRST AID MEASURES AND PRECAUTIONS

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. Symptoms of **Glyphosate** poisoning include: headache, vomiting and diarrhoea.
Inhalation: Remove source of contamination, or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Qualified personnel should perform administration of oxygen. Get medical attention if effects persist.
Skin contact: Move the victim to fresh air and remove all contaminated clothing, shoes and leather goods. Gently wipe off excess chemical. Wash affected skin areas gently and thoroughly with water and non-abrasive soap. Do not rub the skin. If irritation persists, seek medical advice.
Eye contact: Immediately flush the eyes with clean, gently flowing lukewarm water or saline solution for 20 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.
Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Seek medical advice immediately showing container and label.
Advice to physician: There is no specific antidote. Treat symptomatically and supportively as and when required. Remove by gastric lavage and catharsis, but not if victim is unconscious. Give oxygen if respiration is depressed.

5. FIRE FIGHTING MEASURES

Fire and explosion hazard: Flash point: Not applicable.
Flammability: Non-flammable.
Extinguishing agents: Extinguish fires in proximity with carbon dioxide, dry powder or alcohol-resistant foam. Water spray can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Use as little water as possible. Use spray or fog. Solid stream may cause spreading. Contain water used for firefighting for later disposal.
Hazardous products of combustion: Carbon monoxide (CO), phosphorous oxides (P_xO_y) and nitrogen oxides (NO_x)

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Firefighting: Remove spectators from surrounding area. Remove container from fire area if possible. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind.

Personal protective equipment: Fire may produce irritating or poisonous vapours (toxic fumes of carbon monoxide, phosphorous oxides and nitrogen oxides), mists or other products of combustion. Fire fighters and others that may be exposed should wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES (SPILLAGE)

Personal precautions: Avoid contact with skin and eyes. Do not breathe spray or fumes. For personal protection see Section 8.

Environmental precautions: Do not allow entering of drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

Occupational spill: Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other non-combustible absorbent material and place into containers for later disposal. For large liquid spills, contain the liquid for later disposal. In situations where product comes in contact with water, contain contaminated water for later disposal. Do not flush spilled material into drains. Keep spectators away.

7. HANDLING AND STORAGE REQUIREMENTS

Handling: Avoid contact with eyes, prolonged contact with skin, and inhalation of spray and fumes. Handle product with caution. Use with adequate ventilation. Wash hands before eating, drinking, chewing gum, smoking or using the toilet. Remove clothing immediately if the herbicide gets inside. Then wash skin thoroughly using a non-abrasive soap and put on clean clothing. Operators should change and wash clothing after use. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark. Water used to clean equipment must be disposed of correctly to avoid contamination.

Storage: Store in its original, labelled and closed container in dry, cool, shaded, well-ventilated area, away from heat, sparks and other sources of ignition. Do not store with other pesticides, fertilizer, seeds, foodstuffs and water supplies. Store away from incompatible substances. Product is incompatible with galvanized steel or unlined mild steel. Keep out of reach of unauthorized persons,

children and animals. Local regulations should be complied with.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire and other applicable regulations.

PERSONAL PROTECTIVE EQUIPMENT:

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable personal protective equipment including approved respiratory protection.

Respirator: It is usually safe to use the product without a mask or respirator. If the product is used in dusty or confined conditions, a mask or respirator suitable for protection from dusts and mists of pesticides is adequate. Limitations of respirator use specified by the approving agency and the manufacturer must be observed.

Clothing: Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

Gloves: Employee must wear appropriate synthetic protective gloves to prevent contact with this substance.

Eye protection: Wear safety goggles or face shield.

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: Transparent brownish liquid.

Odour: Not specific.

Density: 1.412 g/cm³.

Solubility in water: Soluble in water.

Flash point: Not applicable.

Flammability: Non-flammable.

pH: 5.1.

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures. **Glyphosate** reacts strongly (possible violent exothermic reaction) with strong alkalis.

Storage stability: Stable for 2 years under normal warehouse conditions.

Incompatibility: No known incompatibilities

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Thermal decomposition: In the case of combustion or thermal decomposition toxic vapour are release such as toxic oxides of carbon, nitrogen and phosphorus.

Hazardous Reactions: Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute oral LD₅₀: > 5 000 mg/kg in rats (Tech.).

Acute dermal LD₅₀: > 5 000 mg/kg in rats (Tech.).

Inhalation: LC₅₀ (4 hours): > 5.27 mg/l (potassium salt).

Acute skin irritation: None irritant.

Acute eye irritation: Moderately irritant.

Sensitisation (guinea pig): Non-skin sensitizer.

Carcinogenicity: Non-carcinogenic according to lab. animal test.

Teratogenicity: Non-teratogenic according to lab. animal test.

Mutagenicity: Animal studies did not detect any mutagenic effects.

Reproductivity: Reproductive changes in test animals only occur at very high doses. It is unlikely that **Glyphosate** would produce effects in humans.

12. ECOLOGICAL INFORMATION

In plants: Slowly metabolised to aminomethylphosphonic acid, which is a major metabolite.

In soil: DT₅₀ 1-130 d, depending on edaphic and climate conditions. No substantial degradation in soil was recovered over 31 d. The major metabolite in soil is aminomethylphosphonic acid. **Glyphosate** is not persistent and immobile in soil. **Glyphosate** is not expected to bioaccumulate.

In water: DT₅₀ varies from a few to 91 d. Photo degradation in natural water occurs, DT₅₀ 33-77 d. In the lab. the whole system with water and sediments, DT₅₀ 27- 146 (aerobic), 14 22 d (anaerobic). The major metabolite in water is aminomethylphosphonic acid. **Glyphosate** is persistent in water.

ECOTOXICOLOGY: (Glyphosate Tech.)

Birds: Non-toxic

LD₅₀ Bobwhite quail: > 3851 mg/kg
 LC₅₀ Dietary (8 day) quail and ducks >4640 mg/kg diet.

Fish: Slightly to non-toxic to fish

LC₅₀ (96 hours): for trout 86 mg/l

Bluegill sunfish 120 mg/l

Harlequin fish 168 mg/l

Sheepshead minnow >1000 mg/l

Bees: Medium toxicity to bees: LD₅₀: (48 h) >100 mg/l

Daphnia: Moderately toxic to aquatic invertebrates

LC₅₀ (48 h) 780 mg/l.

Algae: Moderately toxic to algae: E_bC₅₀ (72 h) for green algae (*Selenastrum capricornutum*) 485 mg/l, (7 d) 13.8 mg/l. E_rC₅₀ (72 h) 460 mg/l; EC₅₀ (92 h) for marine algae (*Skeletonema costatum*) 1.3 mg/l, (7 d) 0.64 mg/l; EC₅₀ (7 D) for diatom (*Navicula pelliculosa*) 42, blue-green algae (*Anabaena flos-aquae*) 15mg/l.

13. DISPOSAL CONSIDERATION

Pesticide disposal: Open dumping or burning of this pesticide is prohibited Waste resulting from the use of this product that cannot be re-used or reprocessed. Never pour untreated waste or surplus products 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 disposal: Emptied containers retain vapour and product residues. Observe all labelled safeguards until container is destroyed.

TRIPLE RINSE empty containers in the following manner: Invert the empty container over the spray or mixing tank and allow to drain 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 minimum of a third of that of the container. Add the rinsing to the contents of the spray tank before destroying the container in the prescribed manner.

Do not re-use the empty container for any other purpose but destroy it by perforation and flattening and bury in an approved dumpsite. Prevent contamination of food, feedstuffs, drinking water and eating utensils.

Comply with local legislation applying to waste disposal.

14. TRANSPORT INFORMATION

UN NUMBER: 3082

Road Transport ADR/IRD:

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.

Air Transport ICAO/IATA:

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.

Maritime Transport IMDG/IMO:

Class: 9

Packing group: III

Shipping name: Environmentally hazardous substance, liquid, N.O.S.

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15. REGULATORY INFORMATION

Symbol: X_n, X_i, N
Indication: Harmful, Irritating, Environmentally dangerous substance.

Risk phrases:

R20 Harmful by inhalation.
R 22 Harmful if swallowed.
R 35 Causes burns.
R 36 Irritating to eyes.
R 43 May cause sensitization by skin contact.
R 52 Harmful to aquatic organisms.
R 53 May cause long-term adverse effects in the aquatic environment.

Safety phrases:

S 2 Keep out of reach children.
S 2425 Avoid contact with skin and eyes.
S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

16. OTHER INFORMATION

Packaging: Packed in 1, 5, 10, 20, 25, 50, 100, 200 litres plastic containers and labelled according to South African regulations and guidelines.

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 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.

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For detailed information on revisions, contact the Registration holder.