

Sharda International Africa (Pty) Ltd

(Co. Reg. No. 2010/002268/07)

P.O. Box 82021, Southdale, 2135, South Africa.

Tel: 031 764 3011,

Email: rsa.regn@shardaintl.com, Website: <http://www.shardaintl.com>

SECTION 1. Chemical product and company identification

Product identifier:

Identification as on the label/Trade name: **Sharda Glyphosate 500 WG**

Additional information: Glyphosate

Relevant identification uses of the substance and uses advised against:

Identified uses: Fungicide

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Company name: Sharda International Africa (Pty) Ltd

Address: P.O. Box 82021, Southdale, 2135

Phone number.: 031-764-3011

Emergency telephone numbers:

UNITAS Hospital: 0800-111-9900

Tygerberg Hospital: 021-931-6129

Netcare 911: 082911

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or mixture

The mixture is classified according to

SANS 10234:2008, Regulation EC 1272/2008 [EU-GHS/CLP]	
Hazard classes/Hazard categories	Hazard statement
Eye damage	H318 Causes serious eye damage
Hazardous to the Environment	H411 Toxic to aquatic life with long lasting effects.

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None.

The most important adverse human health effects:

Label elements



Hazard pictograms:

Signal Word: **Danger**

Hazard Statements: H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: P102 Keep out of reach of children. P103 Read carefully and follow all instructions.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. P391 Collect spillage.

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Special labelling of certain mixtures: None

Other hazards: None

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Ingredients:

Substance name (IUPAC/EC)	CAS –No.	Concentration % by weight	Classification
			EC1272/2008
Glyphosate	1071-83-6	52.63%	Serious eye damage (Category 1) H318. Aquatic chronic 2 H411
Glyphosate ammonium salt	114370-14-8	57.74%	Aquatic chronic 2 H411
Sodium salt of phenol sulphonic acid	825-90-1	8.00%	Not classified
Sodium salt alkyl naphthalene sulphonic acid	1258274-08-6	3.00%	Not classified
Kaolin	1332-58-7	30.63%	Not classified
Quartz	14808-60-7	0.25%	Not classified

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of accident or unwellness, seek medical advice immediately (show direction for use or data sheet if possible).

First aider: Pay attention to self-protection.

In case of inhalation:

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

In case of skin contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

In case of eye contact:

Immediately flush with plenty of water. After initial flushing, remove contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.

In case of ingestion:

Rinse mouth. Drink plenty of water. If symptoms persist, call a physician

Self-protection of the first aider: use personal protective equipment as required

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Most important symptoms and effects, both acute and delayed: None

Advice to physician:

There is no specific antidote. Treat symptomatically and supportively as and when required.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Use carbon dioxide, dry powder, alcohol resistant foam. Use water as a spray or fog (not a solid water stream) to avoid spreading the contamination. Use water to cool unaffected stock. Contain fire-fighting water to prevent further contamination

SMALL FIRE: See above.

LARGE FIRE: See above.

Unsuitable extinguishing media: High volume water jet. Use a water jet only to cool heated containers.

Fire and Explosion Hazards: The formulation is non-flammable. Containers can be flammable.

Specific hazards arising from the mixture:

Carbon monoxide, phosphorous oxides, nitrogen oxides.

Advice for fire-fighters:

Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective gear. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

Avoid contact with skin, eye or clothing. Use personal protective equipment as required. Evacuate personal to safe areas. Keep people away from and upwind of spill/ leak.

For non-emergency personnel: Keep all personal away. Avoid contact with eyes and skin.

For emergency responders: Wear appropriate personal protective equipment. Avoid contact and ventilate area of the spill or leakage.

Protective equipment:

Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill.

Emergency procedures: Alert fire-fighting personnel, evacuate unprotected personal and animals

Environmental precautions:

Prevent entry into waterways, sewers, basement or confined areas. Do not flush into surface water or sanitary sewer systems. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains

Methods and materials for containment and cleaning up:

Material for containment and cleaning up:

Take up mechanically, placing in appropriate container for disposal

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

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Additional information: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Handle this product with caution. Use this product only in areas with adequate ventilation. Do not eat, drink or smoke while handling this product. Wash hands and exposed skin thoroughly after handling or contact with this product. Remove contaminate clothing immediately, wash any contaminated skin with soap and water and put on clean clothing. Operators should change and wash clothing after use. Do not contaminate drains, sewers and water bodies when disposing of equipment rinse water. Refer to Section 13 for disposal of rinse water. Observe all safeguards on the label as to cleaning and destruction of the container.

Protective measures: General occupational hygiene: when using do not eat, drink or smoke. Ash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended

Conditions for safe storage, including incompatibilities:

Storage Temperature: Store between 4 and 30 °C. Do not allow to freeze. Store only in a cool dry area protected from heat and moisture. Incompatible Materials for Storage: Do not store in metal containers. Keep out of reach of children, uninformed persons and animals. Store away from food, drink, seed, fertilisers and animal feed. Store only in the original labelled container.

Minimum Shelf Life: 2 years.

Incompatible substances:

None known

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known

Biological exposure indices (BEI): None known.

Additional exposure limits under the conditions of use: None known.

Exposure control:

Appropriate engineering controls:

Ensure adequate ventilation, especially in confined areas

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Where there is 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

Respiratory protection:

Use only with adequate ventilation

Hand protection:

Suitable chemical resistance gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minimum Permeability time (permeation) according to EN 374) e.g., nitrile rubbers (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

Eye/face protection:

tight sealing safety goggles when handling the product. Contact lenses are not protective eye devices.

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Skin and body protection:

Suitable protective clothing. Apron, gloves made of plastic or rubber

Environmental exposure controls: Do not allow into any sewers, on the ground or into any body of water

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:	White
Colour:	Wettable granules
Odour:	Odourless to slight amine
pH (1% aqueous dilution):	4.4 – 4.9
Melting point:	No information available
Freezing Point:	No information available
Boiling Point:	No information available
Flash Point:	Not applicable
Flammability:	Not flammable
Upper/lower explosion limits:	No information available
Vapour Pressure (mm Hg):	No information available
Relative Vapour Density:	No information available
Density:	0.75
Solubility:	Completely Soluble
N-octanol/water partition coefficient:	No information available
Auto-ignition temperature:	No information available
Decomposition temperature:	>189 °C
Viscosity:	Glyphosate is not viscous
Corrosivity	Glyphosate is corrosive to mild steel, plated steel and other metals. Use stainless steel or HDPE containers and equipment.
Explosive properties:	No information available
Oxidizing properties:	No information available
Bulk density:	No information available
Surface tension:	No information available

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not available

Chemical stability:

The product is stable for two (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.

Possibility of hazardous reactions: This product can react with alkaline materials to form heat. This is a chemical neutralisation as an acid-base reaction. Do not allow this product to come into contact with any metal as hydrogen gas can be produced. This product can be corrosive to mild steel, tinplate and unprotected metal surfaces.

Conditions to avoid: Heat, flames and sparks

Incompatible materials: No information available

Hazardous decomposition products: Does not form hazardous decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

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Information on toxicological effects:

Glyphosate CAS 114370-14-8	
Acute toxicity	
Acute Oral LD50 (rat)	4613 mg/kg
Acute Dermal LD50 (rat):	>5000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	Rat (whole body)>1.9 mg/ℓ Air
Skin irritation/ corrosion (rabbits)	Not a skin irritant
Eye damage / irritation (rabbits)	Slight eye irritation
Respiratory or skin sensitization	
Germ cell mutagenicity	
Carcinogenicity	
Reproductive toxicity	
Specific Target Organ Toxicity STOT single exposure	
Specific Target Organ Toxicity STOT repeated exposure	
Aspiration hazard	

SECTION 12. ECOLOGICAL INFORMATION

Anticipated behaviour of the chemical product in the environment /possible environmental impact/ecotoxicity:

Glyphosate CAS 114370-14-8	
Birds:	
Acute oral LD ₅₀	Bobwhite quail >3851 mg/kg Quail and ducks >4640 mg/kg diet
Fish LC ₅₀ (96 h)	Trout 86 Bluegill sunfish 120 Harlequin fish 168 Sheepshead minnows >1000 mg/ℓ
Daphnia EC ₅₀ (48 h)	780 mg/ℓ
Algae	E _b C ₅₀ (72 h) <i>Seletonema capricornutum</i> 485 g/ℓ, (7 d) 13.8mg/ℓ E _r C ₅₀ (72 h) 460 mg/ℓ; EC ₅₀ (96 h) for marine algae (<i>Skeletonema costum</i>) 1.3 mg/ℓ (7 d) 0.64 mg/ℓ; EC50 (7 d) for diatom (<i>Novicula pellivulosa</i>) 42, Blue-green algae (<i>Anabaena flos-aquae</i>) 15 mg/ℓ
Other aquatic spp	LC ₅₀ (96 h) for mysid shrimp (<i>Mysidopsis bahia</i>) >1000, grass shrimps 281, fiddler crab 934 mg/ℓ EC ₅₀ (96 h) for sea urchins >1000 mg/ℓ; (14 d) for <i>Lemna gibba</i> 25.5 mg/ℓ; (48 h) for <i>Litoria moorei</i> tadpoles 111 mg/ℓ
Bees LD ₅₀ (48 h) (Contact) LD ₅₀ (oral)	>100 µg/bee 100 µg/bee

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

General Information: Do not discharge into drains, water courses or onto the ground. Discharge, treatment or disposal may be subject to national, state, or local laws. Empty containers may contain product residues. Open dumping or

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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.

Disposal Methods: Destroy the container by perforating and flattening and dispose of through an approved waste dump site, incineration plant or recycling company.

Container: Since emptied containers retain product residue, follow label warnings even after container is emptied.

Product/ packaging disposal:

Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

SECTION 14. TRANSPORT INFORMATION

UN Number: 3077
Un proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S
(Dimethomorph, Folpet)
UN Classification transport hazard class(es): 6.1
Packing group (if applicable) III
Marine pollutant (Y/N) Yes, Considered a marine pollutant
Transport in bulk according to MARPOL 73/78, Annex II and the IBC Code: Not available

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993 Regulation for Hazardous Chemical Substances.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP] and EU directives 67/548/EEC or EC 1999/45/EC

Other National regulations: National Road Traffic Act, 1996 (ACT NO. 93 of 1996).

SANS 11014:2010 – Safety data sheet for chemical products, Content and order section

SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes.

National Environmental Management: Waste Act 59 of 2008.

Chemical Safety Assessment carried out? No

SECTION 16. OTHER INFORMATION

Indication of changes:

GHS aligned

Relevant classification and H statements (number and full text):

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Training instructions:

Use as indicated on the label, special training may be required for application.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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Notice to readers:

To the best of our knowledge, the information contained herein is accurate and is based on the present state of our knowledge and does not therefore guarantee specific properties. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for any accuracy or completeness of the information contained herein.

Final determinations of suitability of any material are sole responsibility of the users, who must take responsibility for observing existing laws and regulations. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.