

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name:	GLYPHOGAN 360 SL	
Registration number:	L10721	
Other name:		
Recommended use of the chemical and restrictions on use	Herbicide	
Registration holder:	ADAMA South Africa (Pty) Ltd Ground Floor, Simeka House The Vineyards Office Estate, 99 Jip de Jager Drive Bellville 7530	
Phone number:	+27 21 982 1460	
Emergency phone number:	Griffon Poison Information Centre	+27(0)82 446 8946
	Tygerberg Poison Information Centre	+27(0)861 155 5777
	SPILL TECH®	+27(0)86 100 0366
		+27(0)83 253 6618

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Hazard Class	Category	Hazard Statement Number
Acute Toxicity, Oral	Category 4	H302
Acute Toxicity, Dermal	Category 4	H312
Acute Toxicity, Inhalation	Category 4	H332
Skin Corrosion/Irritation	Category 1	H314
Serious Eye Damage/Irritation	Category 1	H318
Aquatic Toxicity - Acute	Acute 3	H402
Aquatic Toxicity - Chronic	Chronic 1	H411

GHS Label elements, including precautionary statements:



Signal word:

Warning

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

Hazard statement(s):

H302: Harmful if swallowed

H312: Harmful in contact with skin

H332: Harmful if inhaled

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage

H402: Harmful to aquatic life

H411: Toxic to aquatic life with long lasting effects

Precautionary statement(s):

P260: Do not breathe dusts or mists.

P261: Avoid breathing dust/fume/gas/mist/ vapours/spray

P264: Wash hands thoroughly after handling.

P264+P265: Wash hands thoroughly after handling. Do not touch eyes.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing

P301 + P317: IF SWALLOWED: Get medical help.

P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302 + P361 + P354: IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

P363: Wash contaminated clothing before reuse.

P304 + P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P316: Get emergency medical help immediately.

P317: Get medical help.

P330: Rinse mouth.

P321: Specific treatment.

P302 + P352: IF ON SKIN: Wash with plenty of water.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

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

P405: Store locked up.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not result in classification:

No data available

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Classification
Glyphosate	1071-83-6	35.6	Acute oral: Category 5 Acute dermal: Category 5 Acute inhalation: Category 4 Serious Eye Damage/Irritation, Category 1. Aquatic Toxicity, Chronic, Category 2.
Isopropylamine	75-31-0	14	Acute oral: Category 3 Acute dermal: Category 3 Acute inhalation: Category 5 Skin Corrosion/Irritation, Category 1. Serious Eye Damage/Irritation, Category 1.
Alkyl Polyglucoside	161074-97-1	18	Acute oral: Category 5 Serious Eye Damage/Irritation, Category 1.
Water	7732-18-5	Balance	/

4. FIRST AID MEASURES

Description of necessary first aid measures

Ingestion: Have victim rinse mouth thoroughly with water. Do not induce vomiting. Seek medical advice immediately showing container and label.

Inhalation: Remove source of contamination, or move victim to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. 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 15 - 20 minutes, holding the eyelid(s) open. If irritation persists, seek medical advice.

Advice to doctors: There is no specific antidote. All treatment should be based on the patient's painful signs and symptoms.

Antidote: No specific antidote.

Most important symptoms/effects, acute and delayed:

To date no symptoms are known.

Indication of immediate medical attention and special treatment needed:

There is no specific antidote. Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended.

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Extinguish fires 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 fire-fighting for later disposal.

Special hazards arising from the chemical:

Carbon monoxide (CO), phosphorous oxides (P_xO_y) and nitrogen oxides (NO_x).

Special protective actions for fire-fighters:

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

Personal precautions, protective equipment and emergency procedures:

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

Environmental precautions:

Do not allow entering 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.

Methods and materials for containment and cleaning up:

Procedure for spill

Remove all sources of flames and sparks. For small liquid spills, soak up with lime, damp earth or sand, or other noncombustible 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

Precautions for safe 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 nonabrasive 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.

Conditions for safe storage, including any incompatibilities:

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

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

complied with.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standard.

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 (physical state, color etc.):	Colorless or Yellow liquid.
Odor:	Not available.
Odor threshold:	Not available.
pH:	4.4-5.0
Melting point/freezing point:	-14°F
Initial boiling point and boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapor pressure:	Not available.
Vapor density:	1.171 g/m

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

Relative density:	Not available.
Solubility(ies):	Miscible.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

10. STABILITY AND REACTIVITY

Reactivity:

Not available.

Chemical stability:

Stable under normal temperatures and pressures. Glyphosate reacts strongly (possibly violent exothermic reaction) with strong alkalis. Photodecomposition is negligible. Is stable to light and also stable up to 60°C. Product is unlikely to spontaneously polymerise or decompose. Decompose only after heating to dryness followed by further heating. Glyphosate may be photolabile in natural waters, with calcium or other metal ions acting as catalysts for the process.

Possibility of hazardous reactions:

Not available.

Conditions to avoid:

Not available.

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:

Not available.

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

Causes serious eye damage

Numerical measures of toxicity:

Acute oral LD50:	972.4 mg/kg
Acute dermal LD50:	1665.3 mg/kg
Acute inhalation LC50:	3.24 mg/kg
Skin irritation:	Category 1

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

Eye irritation:	Category 1
Skin sensitization:	NO
Germ cell mutagenicity:	Negative
Carcinogenicity:	No evidence of carcinogenic potential
Reproductive toxicity and Developmental toxicity:	Not available
Specific target organ toxicity (single exposure):	Not available
Repeated dose toxicity and Specific target organ toxicity (repeated exposure):	Not available
Aspiration hazard:	Not available

Chronic health effects:

Genetic effects/Mutagenicity: Animal studies did not detect any mutagenic effects. Teratogenicity: Animal studies did not detect any teratogenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Acute toxicity to Fish, Slightly toxic to fish

Acute toxicity to Bird, Slightly toxic to birds

Acute toxicity to Bee, Practically non-toxic to bees

Acute toxicity to earthworms and soil micro-organisms: Earthworms: >1380 mg/kg soil.

Persistence and degradability:

Stable in water and is not persistent in soil.

Bioaccumulative potential:

Medium potential for bioaccumulation.

Mobility in the soil:

No data available.

Other adverse effects:

Avoid release to the environment.

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

Pesticide Disposal:

Open dumping or burning of this pesticide is prohibited waste resulting from the use of this product that cannot be reused 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:

Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if

SAFETY DATA SHEET: GLYPHOGAN® 360 SL

Revision date: 14/04/2022

Version 2

Print date: 19/10/2022

available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration or by other procedures approved by state and local authorities.

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.

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.S

Marine Pollutant (Y/N): yes

Air transport IATA/ICAO:

Class: 9

Packaging group: III

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.N.O.

Special/Environmental Precautions: None known.

15. REGULATORY INFORMATION

The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given.

Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and /or local laws.

16. OTHER INFORMATION

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

This version revised in 20220414.