

SAFETY DATA SHEET RIDOWN 360 SL

SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY / UNDERTAKING

- 1.1 **Product Name:** Ridown 360 SL (Glyphosate 360 g/l SL)
Product description: L10924
Product Type: Herbicide
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Relevant uses: A non-selective post-emergence herbicide solution for the control of annual weeds and perennial as indicated on the label.
- 1.3 **Details of the supplier of the safety data sheet**
Avima (Pty) Ltd
Co. Reg. Nr.: 1961/00174407
18 Aschenberg Street
Chamdor
Krugersdorp
+27 11 769 1300
- 1.4 **Emergency telephone number**
Tygerberg Poison Information Centre
(24 Hour Poisoning Emergency Helpline)
+27 861 555 777
- Griffon Poison Information Centre
(24 Hour Poisoning Emergency Helpline)
+27(0)82 446 8946

SECTION 2: HAZARD IDENTIFICATION

2.1 **Classification of the substance or mixture:**

The product is a mixture

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

2.2. **Label elements**



Signal Word: Warning

Hazard Statements:

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 Statements:

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 and soap.
P362+P364 – Take off contaminated clothing and wash it before reuse.
P390 – 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.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances:

3.2. Mixtures:

Inert	CAS no.	Concentration	Hazard class
Glyphosate	1071-83-6	35.6%	Acute Tox. Oral, Category 5 Acute Tox Dermal, Category 5 Acute Tox. Inhalation, Category 4 Serious Eye Damage/Irritation, Category 1 Aquatic Toxicity Chronic, Category 2
Isopropylamine	75-31-0	14%	Acute Tox. Oral, Category 3

			Acute Tox. Dermal, Category 3 Acute Tox. Inhalation Category 5 Skin Corrosion/Irritation, Category 1 Serious Eye Damage/Irritation, Category 1
Alkyl Polyglucoside	161074-97-1	18%	Acute Tox. Oral, Category 5 Serious Eye Damage/Irritation, Category 1
Water	7732-18-5	Balance	/

SECTION 4: FIRST AID MEASURES

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms:** To date no symptoms are known.

4.3 Indication of any immediate medical attention and special treatment needed

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

SECTION 5: FIREFIGHTING MESURES

5.1 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.

5.2 Special hazards arising from the chemical:

Carbon monoxide (CO), phosphorous oxides (PxOy) and nitrogen oxides (NOx).

5.3 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 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.

6.2 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.

6.3 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 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.

SECTION 7: HANDLING AND STORAGE

7.1 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.

7.2 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 complied with.

7.3 Incompatible substances and mixtures:

Refer to product label.

7.4 Packaging material:

HDPE plastic containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Appropriate engineering controls:

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

8.2 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Colourless or yellow liquid
Odour:	Not available
Odour 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
Vapour pressure:	Not available
Vapour density:	1.171 g/m
Relative density:	Not available
Solubility:	Miscible
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:	Not available
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10.2 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.

10.3 Possibility of hazardous reactions:	Not available
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10.4 Conditions to avoid:	Not available
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10.5 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.

10.6 Hazardous Decomposition Products: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 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

11.2 Numerical measures of toxicity:

Acute oral LD ₅₀ :	972.4 mg/kg
Acute dermal LD ₅₀ :	1165.3 mg/kg
Acute inhalation LD ₅₀ :	3.24 mg/kg
Skin irritation:	Category 1
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

12.1 Ecotoxicity

Acute toxicity to Fish, Slightly toxic to fish

Acute toxicity to Bee, Practically non-toxic to bees

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

12.2 Persistence and degradability

Stable in water and is not persistent in soil.

12.3 Bioaccumulative potential

Medium potential for bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 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.

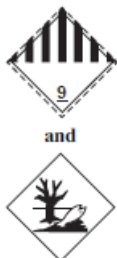
Container Disposal:

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

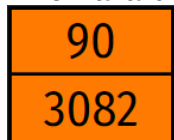
SECTION 14: TRANSPORT INFORMATION

14.1 UN NUMBER:	UN 3082
14.2 Shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 ADR / RID class:	9
14.4 Packaging group:	III

14.5 Labelling symbol:



14.6 Hazard Identification:



SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Further information:

WHO-classification: III (Slightly hazardous)

SECTION 16: OTHER INFORMATION

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.