

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

1. IDENTIFICATION OF THE SUBSTANCE AND THE SUPPLIER

Product name:	ADAMA GLYPHOSATE 540 SL
Active Ingredient:	Glyphosate 540 g/L (glyphosate potassium salt 665 g/L)
Registration number:	L11050
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
Supplier fax:	+86-531-88875232, 88875224
Emergency phone number(s):	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 5	H313
Acute Toxicity, Inhalation	Category 4	H332
Skin Corrosion/Irritation	Category 1A	H314
Serious Eye Damage/Irritation	Category 1	H318
Aquatic Toxicity - Acute	Acute 3	H402
Aquatic Toxicity - Chronic	Chronic 2	H411

GHS Label elements, including precautionary statements:



Signal word:

Warning

Hazard statement(s):

H302: Harmful if swallowed.

H313: May be harmful in contact with skin.

H332: Harmful if inhaled.

H314: Causes severe skin burns and eye damage.

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

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 dust/fume/gas/mist/ vapours/spray.

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

P273 Avoid release to the environment.

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

P264: Wash body thoroughly after handling.

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

P271: Use only outdoors or in a well-ventilated area.

P280: Wear eye protection/face protection.

P284: [In case of inadequate ventilation] wear respiratory protection.

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

P301+P317: IF SWALLOWED: Get medical help.

P302 + P317: IF ON SKIN: Get medical help.

P317: Get medical help.

P321 Specific treatment (see on this label)

P330: Rinse mouth.

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.

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

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.

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration (%)	Classification
Glyphosate	1071-83-6	54	Acute oral: Category 5. Acute dermal: Category 5. Acute inhalation: Category 4. Serious Eye Damage/Irritation, Category 1.

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

			Aquatic Toxicity, Acute: Category 3. Aquatic Toxicity, Chronic, Category 2.
KOH	1310-58-3	18.3	Acute oral: Category 4. Skin corrosion/irritation: Category 1A. Serious Eye Damage/Irritation, Category 1. Aquatic Toxicity, Acute: Category 3.
APG	161074-97-1	15	Acute oral: Category 5. Serious Eye Damage/Irritation, Category 1.
Water	7732-18-5	Balance	Ignored

4. FIRST AID MEASURES

Description of necessary first aid measures

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. Have this SDS with you when you call.

Inhalation:

No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Skin Contact:

Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.

Eye Contact:

No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion:

If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Advice to doctors: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

Special hazards arising from the chemical

If involved in a fire, the dehydrated components may emit oxides of carbon and oxides of nitrogen.

Special protective actions for fire-fighters

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles.

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Prevent material from entering public sewer system or any waterways. Do not flush to drain, spills or discharge to natural.

Methods and materials for containment and cleaning up:

Keep locked up. Do not ingest. Do not breathe gas/fumes/ vapor/spray. If ingested, seek medical advice immediately and show the container or the label. Keep container tightly closed. Keep container in a cool, well-ventilated area.

7. HANDLING AND STORAGE

Precautions for safe handling:

Keep exposure to this product to a minimum, and minimise the quantities kept in work areas.

The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace.

Conditions for safe storage, including any incompatibilities:

This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area.

Incompatible substances and mixtures: Refer to product label.

Packaging material: HDPE plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Personal protective equipment:

When opening the container, preparing product for use and using the prepared product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow length PVC gloves, goggles and a half face piece respirator. Re-entry period. Do not enter treated area until the spray has dried. Note: Use of a respirator is recommended by the APVMA to protect against chronic (long term exposure) effects.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color etc.): Liquid

Odor: Not available

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

Odor threshold:	Not available
pH:	4.4-5.0
Melting point/freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Non-flammable
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Relative density:	1.37 g/L
Solubility(ies):	Not available
Partition coefficient: n-octanol/water:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

10. STABILITY AND REACTIVITY

Reactivity:

This product is unlikely to react or decompose under normal storage conditions.

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:

Slightly reactive to reactive with oxidizing agents, alkalis.

Conditions to avoid:

This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

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:

Product is unlikely to decompose until heated to dryness. On further heating may emit toxic fumes.

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

11. TOXICOLOGICAL INFORMATION

Acute health effects:

Toxic in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

Numerical measures of toxicity:

Acute oral LD50:	1557.3 mg/kg
Acute dermal LD50:	3087.96 mg/kg
Acute inhalation LC50:	1.85mg/kg
Skin irritation:	Category 1A
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:

Not considered to be Carcinogenicity/Teratogenicity/Reproductive toxicity/Mutagenicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Birds - Acute LD50:	> 2241 in the Bobwhite quail
Fish - Acute 96 hour LC50:	> 1227 mg a.e./l in the rainbow trout;
Bees - Acute 48 hour LD50:	100 µg/bee;
Daphnia – EC50:	0.22 mg/L
Worms – LD50:	6 mg/Kg in the Eisenia foetida.

Persistence and degradability:

No data available.

Bioaccumulative potential:

No evidence of bioaccumulation

Mobility in the soil:

No data available.

Other adverse effects:

No data available

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

13. DISPOSAL CONSIDERATIONS

Safe handling of waste residues and disposal methods:

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. Unused or spent dip should be disposed of carefully to avoid contamination of streams, rivers and waterways. Dispose of dip by pouring evenly into a limed disposal pit, specifically marked and setup for this purpose clear of waterways, desirable vegetation and tree roots. Alternatively, spray onto grassed areas where runoff to waterways, leaching to groundwater or grazing by animals will not occur.

DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or a designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

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.S. (Glyphosate)

Maritime Transport IMDG/IMO:

Class: 9

Packaging group: III

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

Marine Pollutant (Y/N): yes

Air transport IATA/ICAO:

Class: 9

Packaging group: III

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

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.

SAFETY DATA SHEET: ADAMA GLYPHOSATE 540 SL

Revision date: 08/03/2022

Version 2

Print date: 30/11/2022

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 20220308.