

# Safety Data Sheet

according to WHS Regulations

Printing date 22.09.2020

Revision: 22.09.2020

## 1 Identification

**Product Name:** RELYON GLYPHIX 540 K HERBICIDE

**Other Means of Identification:** Mixture

**Recommended Use of the Chemical and Restriction on Use:** Agricultural herbicide

**Details of Manufacturer or Importer:**

Nutrien Ag Solutions Limited  
Level 5, Building A,  
26 Talavera Road,  
Macquarie Park NSW 2113

**Phone Number:** (02) 9889 5400

**Emergency telephone number:** 1800 44 88 92

## 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



environment

Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.

**Signal Word** Danger

**Hazard Statements**

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P273 Avoid release to the environment.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

P391 Collect spillage.

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

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures**

**Description:** Mixture of substances listed below with nonhazardous additions.

**Hazardous Components:**

|                |   |     |
|----------------|---|-----|
| CAS: 1071-83-6 | Glyphosate (ISO)  | 54% |
|                | Serious Eye Damage/Irritation 1, H318;  Aquatic Chronic 2, H411 |     |

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### 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

**Skin Contact:**

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms persist.

**Eye Contact:**

In case of eye contact, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek medical attention.

**Symptoms Caused by Exposure:**

Inhalation: May cause irritation of the nose, throat and respiratory tract.

Skin Contact: May cause skin irritation, redness, itching and swelling.

Eye Contact: Causes serious eye damage.

Ingestion: May cause gastrointestinal irritation, nausea and vomiting.

### 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include oxides of carbon and nitrogen, other nitrogen compounds, hydrogen cyanide, potassium compounds, water and smoke.

This product is not flammable, but may burn or decompose in a fire.

Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

**Special Protective Equipment and Precautions for Fire Fighters:**

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

### 6 Accidental Release Measures

**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear appropriate respiratory protection and protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

**Environmental Precautions:**

In the event of a major spill, prevent spillage from entering drains or water courses.

**Methods and Materials for Containment and Cleaning Up:**

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal.

### 7 Handling and Storage

**Precautions for Safe Handling:**

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

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**Conditions for Safe Storage:**

Store in a cool, dry and well ventilated area out of direct sunlight. Keep in original container, tightly closed when not in use. Keep away from strong oxidising agents, acids and bases.

### 8 Exposure Controls and Personal Protection

**Exposure Standards:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

**Respiratory Protection:**

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

**Skin Protection:**

PVC or rubber gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

**Eye and Face Protection:**

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

### 9 Physical and Chemical Properties

**Appearance:**

|   |                                  |
|---|----------------------------------|
| <b>Form:</b>                                | Liquid                           |
| <b>Colour:</b>                              | Blue                             |
| <b>Odour:</b>                               | Odourless                        |
| <b>Odour Threshold:</b>                     | No information available         |
| <b>pH-Value:</b>                            | 4.7                              |
| <b>Melting point/freezing point:</b>        | <0 °C                            |
| <b>Initial Boiling Point/Boiling Range:</b> | ~100 °C (at 100 kPa)             |
| <b>Flash Point:</b>                         | No information available         |
| <b>Flammability:</b>                        | Product is not flammable.        |
| <b>Auto-ignition Temperature:</b>           | No information available         |
| <b>Decomposition Temperature:</b>           | No information available         |
| <b>Explosion Limits:</b>                    |                                  |
| <b>Lower:</b>                               | No information available         |
| <b>Upper:</b>                               | No information available         |
| <b>Vapour Pressure at 20 °C:</b>            | 2.37 kPa (water vapour pressure) |
| <b>Relative Density:</b>                    | 1.36                             |
| <b>Vapour Density:</b>                      | No information available         |
| <b>Evaporation Rate:</b>                    | No information available         |
| <b>Solubility in Water:</b>                 | Completely soluble               |
| <b>Viscosity:</b>                           | Viscous                          |

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### 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** Direct sunlight.

**Incompatible Materials:** Strong oxidising agents, acids and bases.

**Hazardous Decomposition Products:**

Oxides of carbon and nitrogen, other nitrogen compounds, hydrogen cyanide, potassium compounds, water and smoke.

### 11 Toxicological Information

**Toxicity:**

**LD50/LC50 Values Relevant for Classification:**

**CAS: 1071-83-6 Glyphosate (ISO)**

|            |          |                        |
|------------|----------|------------------------|
| Oral       | LD50     | >10,000 mg/kg (mice)   |
|            | LD50     | >10,000 ml/kg (rabbit) |
| Dermal     | LD50     | >5,000 mg/kg (rat)     |
| Inhalation | LC50/4 h | 5-12 mg/l (rat)        |

**Acute Health Effects**

**Inhalation:** May cause mild respiratory irritation.

**Skin:** May cause skin irritation, itchiness and reddening.

**Eye:** Causes serious eye damage.

**Ingestion:** May cause gastrointestinal irritation, nausea and vomiting.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** Glyphosate is classified by IARC as Group 2A - Probably carcinogenic to humans.

**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for glyphosate for a human is 0.3 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 30 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2020).

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## 12 Ecological Information

**Ecotoxicity:** No information available**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**CAS: 1071-83-6 Glyphosate (ISO)**

LC50/96 h 281 mg/l (shrimp)

LC50/48 h 780 mg/l (daphnia)

**Persistence and Degradability:** No information available**Bioaccumulative Potential:** No information available**Mobility in Soil:** No information available**Other adverse effects:** No information available

## 13 Disposal Considerations

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 Transport Information

**UN Number**

ADG

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

**IMDG, IATA**

UN3082

**Proper Shipping Name**

ADG

Not regulated  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (Glyphosate (ISO))**IMDG, IATA****Dangerous Goods Class****ADG Class:**

Not regulated

**IMDG Class:**

9 Miscellaneous dangerous substances and articles.

**Packing Group:**

ADG

Not regulated

**IMDG, IATA**

III

**Marine pollutant:**Yes  
Symbol (fish and tree)**EMS Number:**

F-A,S-F

**Hazchem Code:**

•3Z

**Special Provisions:**

274, 331, 335, 375, AU01

**Limited Quantities:**

5L

**Packagings & IBCs - Packing Instruction:**

P001, IBC03, LP01

**Packagings & IBCs - Special Packing Provisions:** PP1

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**Portable Tanks & Bulk Containers - Instructions: T4****Portable Tanks & Bulk Containers - Special Provisions:**

TP1, TP29

### 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 1071-83-6 Glyphosate (ISO)

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 5

### 16 Other Information

**Date of Preparation or Last Revision:** 22.09.2020**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

**Data altered compared to the previous version:**

Section 1: Details of Manufacturer or Importer.

Section 1: Phone Number.

Section 1: Emergency telephone Number.

Section 5: Special Hazards Arising from the Chemical.

Section 11: Toxicity.

Section 11: Carcinogenicity.

Section 11: Additional Toxicological Information.

Section 12: Aquatic Toxicity.

Section 14: Hazchem Code.

Section 14: Special Provisions.

**Disclaimer**

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - May 2018"

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