

Safety Data Sheet

according to WHS Regulations

Printing date 09.09.2020

Revision: 09.09.2020

1 Identification

Product Name: RELYON GLYPHIX 450 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
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:

Not classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Signal Word None

Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

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: 38641-94-0 | N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1) | 45% |
| |  Aquatic Chronic 2, H411 | |

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. 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 occur.

Eye Contact:

In case of eye contact, flush the eye continuously with running water. Seek medical attention if symptoms occur.

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Ingestion:

If swallowed, do not induce vomiting. Wash mouth with water and give some water to drink. Do not give anything by mouth to an unconscious person. Seek immediate 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: May cause eye irritation, tearing, stinging, redness and blurred vision.

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, nitrogen and phosphorus.

This product is non-combustible.

This product, when wet, reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode if ignited.

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 approved respiratory protection and full 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:

This product, when wet, reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode if ignited.

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

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.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use.

Compatible materials for storage are stainless steel, aluminium, fibreglass, plastic and glass. Protect from prolonged periods in direct sunlight. Keep away from galvanised steel and unlined mild steel.

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.

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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, PVA, nitrile, neoprene, rubber or vinyl 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:

| | |
|---|---------------------------|
| Form: | Viscous liquid |
| Colour: | Blue |
| Odour: | Slight amine odour |
| Odour Threshold: | No information available |
| pH-Value: | No information available |
| Melting point/freezing point: | ~0 °C |
| Initial Boiling Point/Boiling Range: | 100 °C |
| Flash Point: | Not applicable |
| Flammability: | Product is not flammable. |
| Auto-ignition Temperature: | Not applicable |
| Decomposition Temperature: | No information available |
| Explosion Limits: | |
| Lower: | Not applicable |
| Upper: | Not applicable |
| Vapour Pressure at 20 °C: | 2.37 kPa (water) |
| Relative Density: | No information available |
| Vapour Density: | No information available |
| Evaporation Rate: | No information available |
| Solubility in Water: | Soluble in water |

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

This product, when wet, reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode if ignited.

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

Conditions to Avoid: Direct sunlight.

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Incompatible Materials: Galvanised steel and unlined mild steel.**Hazardous Decomposition Products:** Oxides of carbon, nitrogen and phosphorus.

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 38641-94-0 N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1)**

| | | |
|------------|----------|-----------------------|
| Oral | LD50 | >5,000 mg/kg (rat) |
| Dermal | LD50 | >5,000 mg/kg (rabbit) |
| Inhalation | LC50/4 h | >1.3 mg/l (rat) |

Acute Health Effects**Inhalation:** May cause irritation of the nose, throat and respiratory tract.**Skin:** May cause skin irritation, redness, itching and swelling.**Eye:** May cause eye irritation, tearing, stinging, redness and blurred vision.**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:** Based on classification principles, the classification criteria are not met.**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:**

Repeated and prolonged occupational skin overexposure may cause defatting leading to dermatitis.

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).

12 Ecological Information

Ecotoxicity:

This is a non-selective contact herbicide. Spray drift may cause damage. Practically not toxic to birds or bees.

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

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| |
|--|
| CAS: 38641-94-0 N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1) |
| LC50/96 h ~8.2-26 mg/l (rainbow trout) |

Persistence and Degradability:

Half-life in soil is typically 47 days. Loss from soil is primarily by microbial degradation.

Bioaccumulative Potential: No significant bioaccumulation is expected.**Mobility in Soil:** Low mobility under normal conditions.**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 regulated |
| Proper Shipping Name | |
| ADG | Not regulated |
| IMDG | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1)), MARINE POLLUTANT |
| IATA | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1)) |
| 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 |
| 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 |
| Portable Tanks & Bulk Containers - Instructions: | T4 |
| Portable Tanks & Bulk Containers - Special Provisions: | TP1, TP29 |

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15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 38641-94-0 | N-(phosphonomethyl)glycine, compound with 2-propylamine (1:1)

CAS: 7732-18-5 | Water

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

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 09.09.2020**Prepared by:** MSDS.COM.AU Pty Ltdwww.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)

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 2: Hazardous Nature

Section 2: Signal Word

Section 2: Hazard Statements

Section 2: Precautionary Statements.

Section 5: Specific Hazards Arising from the Chemical.

Section 7: Precautions for Safe Handling

Section 7: Conditions for Safe Storage

Section 10: Possibility of Hazardous Reactions.

Section 11: Skin Corrosion / Irritation

Section 11: Serious Eye Damage / Irritation

Section 11: Carcinogenicity

Section 11: Additional Toxicological Information.

Section 12: Aquatic Toxicity.

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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