

# Safety Data Sheet

according to WHS Regulations

Printing date 25.08.2020

Revision: 25.08.2020

## 1 Identification

**Product Name: RELYON TRIALLATE GOLD 500 SELECTIVE 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:**

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)



health hazard

STOT RE 2                      H373 May cause damage to organs through prolonged or repeated exposure.



environment

Aquatic Acute 1              H400 Very toxic to aquatic life.

Aquatic Chronic 1          H410 Very toxic to aquatic life with long lasting effects.



Acute Toxicity (Oral) 4      H302 Harmful if swallowed.

Skin Sensitisation 1        H317 May cause an allergic skin reaction.

Flammable Liquids 4        H227 Combustible liquid.

**Signal Word** Warning

**Hazard Statements**

H227 Combustible liquid.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P210                      Keep away from flames and hot surfaces. No smoking.

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- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P314 Get medical advice/attention if you feel unwell.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
 P391 Collect spillage.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 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: 2303-17-5	Tri-allate (ISO)	50%
	 STOT RE 2, H373;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317	

**Additional information:** Liquid Hydrocarbon Solvent, CAS No. not supplied: 47.1%

### 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 occur.

#### Eye Contact:

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

#### 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 immediate medical attention.

#### Symptoms Caused by Exposure:

**Inhalation:** May cause mild irritation, itchiness, sore throat, sneezing and coughing. Vapours may cause drowsiness and dizziness.

**Skin Contact:** May cause skin irritation, itchiness and reddening. May cause an allergic skin reaction, skin rash and inflammation.

**Eye Contact:** May cause eye irritation, stinging, reddening and watering. Prolonged exposure or delayed treatment may cause permanent eye damage.

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Ingestion: Harmful if swallowed. May cause irritation, redness and burning sensation to mouth and throat. May be fatal if swallowed and enters airways.

### 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, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, oxides of sulphur, other sulphur compounds, hydrogen chloride, other chlorine compounds and smoke.

Product is combustible.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

**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, chemical resistant gloves, protective clothing and safety boots. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**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. If absorbent material is not available or spill is too large, create a dike to stop spill from spreading. 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. Use only outdoors or in a well-ventilated area.

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. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from strong oxidising agents, strong acids and strong 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.

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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 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>	Amber to brown
<b>Odour:</b>	Characteristic solvent odour
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	No information available
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	160 °C (at 100 kPa)
<b>Flash Point:</b>	>62 °C (closed cup)
<b>Flammability:</b>	Product is combustible.
<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:</b>	Negligible at normal ambient temperatures.
<b>Relative Density:</b>	1.053
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Emulsifies into water.
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Viscosity:</b>	No information available

## 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.

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**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:** Strong oxidising agents, strong acids and strong bases.**Hazardous Decomposition Products:**

Oxides of carbon, nitrogen, nitrogen oxides, other nitrogen compounds, hydrogen cyanide, oxides of sulphur, other sulphur compounds, hydrogen chloride, other chlorine compounds and smoke.

## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values Relevant for Classification:****CAS: 2303-17-5 Tri-allate (ISO)**

Oral LD50 1,700 mg/kg (rat)

**Acute Health Effects****Inhalation:**

May cause mild irritation, itchiness, sore throat, sneezing and coughing. Vapours may cause drowsiness and dizziness.

**Skin:**

May cause skin irritation, itchiness and reddening. May cause an allergic skin reaction, skin rash and inflammation.

**Eye:** May cause eye irritation, stinging, reddening and watering.**Ingestion:**

Harmful if swallowed. May cause irritation, redening and burning sensation to mouth and throat. May be fatal if swallowed and enters airways.

**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:** May cause an allergic skin reaction.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**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:**

May cause damage to organs through prolonged or repeated exposure if swallowed.

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

Prolonged exposure or delayed treatment may cause permanent eye damage.

May cause decreased body weight gain, changes in blood chemistry, increased liver and heart weights, decreased spleen weight and mineralisation in the brain and cornea in laboratory animals.

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

The Australian Acceptable Daily Intake (ADI) for triallate for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 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

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Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', August 2020).

## 12 Ecological Information

**Ecotoxicity:**

Non-toxic to bees.

Relatively non-toxic to birds:

LD50 2251 mg/kg (bobwhite quail)

LD50 /8 day dietary &gt;5000 ppm (mallard duck)

LD50 /8 day dietary &gt;5000 ppm (bobwhite quail)

**Aquatic toxicity:****CAS: 2303-17-5 Tri-allate (ISO)**

EC50/48 h 0.06-0.1 mg/l (daphnia)

LC50/96 h 0.12 mg/l (algae)

1.7 mg/l (fish)

0.62 mg/l (rainbow trout)

Very toxic to aquatic life with long lasting effects.

**Persistence and Degradability:** Moderately persistent. Half-life in soil: 82 days.**Bioaccumulative Potential:** Bioaccumulation may occur in fish.**Mobility in Soil:**

Triallate is not readily soluble in water, and is strongly adsorbed to soil particles. Tiallate has low mobility in soil, but leaching may occur depending on 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** Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

## 15 Regulatory Information

**Australian Inventory of Chemical Substances:**

CAS: 2303-17-5 | Tri-allate (ISO)

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

Poisons Schedule: 5

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## 16 Other Information

**Date of Preparation or Last Revision:** 25.08.2020**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

**Abbreviations and acronyms:**

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)

Flammable Liquids 4: Flammable liquids – Category 4

Acute Toxicity (Oral) 4: Acute toxicity - oral – Category 4

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1

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

Section 1: Details of Manufacturer or Importer, Emergency Phone Number, Section 4: Inhalation, Section 5: Specific Hazards Arising from the Chemical, Section 9: Flammability, Viscosity, Section 10: Hazardous Decomposition Products, Section 11: Additional toxicological information, Section 14: UN Number, Proper Shipping Name, Dangerous Goods Class, Packing Group

**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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