

# Safety Data Sheet

according to WHS Regulations

Printing date 25.08.2020

Revision: 25.08.2020

## 1 Identification

**Product Name:** RELYON TRICLOPYR/PIC 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)



Acute Toxicity (Oral) 4                      H302 Harmful if swallowed.

Serious Eye Damage/Irritation 2A      H319 Causes serious eye irritation.

Flammable Liquids 4                      H227 Combustible liquid.

**Signal Word** Warning

**Hazard Statements**

H227 Combustible liquid.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

**Precautionary Statements**

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

P264                      Wash thoroughly after handling.

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

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.

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

P337+P313              If eye irritation persists: Get medical advice/attention.

P370+P378              In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P403+P235              Store in a well-ventilated place. Keep cool.

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

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## 3 Composition and Information on Ingredients

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

<b>Hazardous Components:</b>		
CAS: 55335-06-3	(3,5,6-trichloro-2-pyridyl)oxyacetic acid ☠ Acute Toxicity (Oral) 3, H301	30%
CAS: 1918-02-1	2-Pyridinecarboxylic acid, 4-amino-3,5,6-trichloro- ⚠ Serious Eye Damage/Irritation 2A, H319	10%

## 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, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing 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 respiratory irritation.

Skin Contact: May cause skin irritation, redness and itchiness.

Eye Contact: Causes serious eye irritation. May cause redness, stinging and watering.

Ingestion: Harmful if swallowed. May cause irritation to mucous membranes.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog, foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:**

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

Combustible liquid.

Containers close to fire should be removed only 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. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

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**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. Wash area after spills. Decontaminate spill area with detergent and water.

## 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 direct sunlight, heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents, acids and bases.

## 8 Exposure Controls and Personal Protection

**Exposure Standards:**

**CAS: 1918-02-1 2-Pyridinecarboxylic acid, 4-amino-3,5,6-trichloro-**

NES TWA: 10 mg/m<sup>3</sup>

**Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapour below occupational exposure standards.

**Respiratory Protection:**

Use a Safe Work Australia 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.

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## 9 Physical and Chemical Properties

<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Colour:</b>	Clear brown
<b>Odour:</b>	Characteristic
<b>Odour Threshold:</b>	Not determined.
<b>pH-Value:</b>	6.65-8.5 (5% emulsion)
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	>200 °C
<b>Flash Point:</b>	82 °C
<b>Flammability:</b>	Combustible liquid.
<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 at 20 °C:</b>	1.138-1.158
<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.

**Conditions to Avoid:** Direct sunlight, heat, sparks, open flames and other sources of ignition.

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

**Hazardous Decomposition Products:**

Oxides of carbon and nitrogen, other nitrogen compounds, nitrogen and hydrogen cyanide.

## 11 Toxicological Information

**Toxicity:**

<b>LD50/LC50 Values Relevant for Classification:</b>		
<b>CAS: 55335-06-3 (3,5,6-trichloro-2-pyridyl)oxyacetic acid</b>		
Oral	LD50	630 - 729 mg/kg (rat)
<b>CAS: 1918-02-1 2-Pyridinecarboxylic acid, 4-amino-3,5,6-trichloro-</b>		
Oral	LD50	> 5000 - 8200 mg/kg (rat)
Dermal	LD50	2000 - 4000 mg/kg (mice)

**Acute Health Effects**

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

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**Skin:** May cause skin irritation, redness and itchiness.**Eye:** Causes serious eye irritation. May cause redness, stinging and watering.**Ingestion:** Harmful if swallowed. May cause irritation to mucous membranes.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**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:**

2-Pyridinecarboxylic acid (Picloram) is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity 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 or prolonged exposure to (3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid (triclopyr) may cause damage to liver and kidneys.

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

The Australian Acceptable Daily Intake (ADI) for 2-Pyridinecarboxylic acid for a human is 0.07 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 7 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

The Australian Acceptable Daily Intake (ADI) for (3,5,6-Trichloro-2-pyridinyl)oxy]acetic acid 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 Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', August 2020).

<b>12 Ecological Information</b>
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**Ecotoxicity:**

Triclopyr (acetic acid, [(3,5,6-trichloro-2-pyridinyl)oxy]-) is slightly to practically nontoxic birds and nontoxic to bees. Picloram (2-pyridinecarboxylic acid, 4-amino-3,5,6-trichloro-) is slightly to practically nontoxic to birds.

**Aquatic toxicity:**Triclopyr is slightly to practically nontoxic to the aquatic organisms  
Picloram is slightly to moderately toxic to fish and aquatic invertebrates.**Persistence and Degradability:**Triclopyr has a moderate persistence in soil. It has a half life in soil of approx 46 days.  
Picloram is quickly degraded by light and more slowly in soil with half-lives of 30 to 90 days.**Bioaccumulative Potential:** Picloram has a moderate potential for bioaccumulation.

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**Mobility in Soil:** Picloram has a high potential for mobility in soil.**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: 64700-56-7 Triclopyr, butoxyethanol ether

CAS: 1918-02-1 2-Pyridinecarboxylic acid, 4-amino-3,5,6-trichloro-

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

Poisons Schedule: 6

## 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) 3: Acute toxicity - oral – Category 3

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

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

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

Section 1: Details of Manufacturer or Importer, Emergency Phone Number, Section 4: Eye Contact, Symptoms Caused by Exposure, Section 5: Specific Hazards Arising from the Chemical, Section 9: Viscosity, Section 10: Conditions to avoid, Hazardous Decomposition Products, Section 11: Acute Health Effects, Serious Eye Damage / Irritation, Additional toxicological information

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## **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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