

# SAFETY DATA SHEET

According to  
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

<b>Section 1.</b>	<b>Identification of the material and the supplier</b>
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Product: Product Use: Restriction of Use:  New Zealand Supplier: Address:  Telephone: Fax: Website:  <b>Emergency No:</b>  Date of SDS Preparation:	<p><b>Duality</b> Herbicide Refer to Section 15</p> <p><b>Adria Crop Protection Solutions</b> 407 State Highway 16 Kumeu 0841, Auckland</p> <p>+64 9 412 9817 +64 9 412 9807 www.adria.nz</p> <p><b>0800 734 607 (24hr)</b> <b>0800 764 766 (National Poison Centre)</b></p> <p>21 March 2023</p>
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<b>Section 2.</b>	<b>Hazards Identification</b>
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This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

**EPA Approval No: HSR000762**

**Pictograms**



Signal Word: **Warning**

<b>GHS Classification and Category</b>	<b>Hazard Code</b>	<b>Hazard Statement</b>
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment chronic Cat. 3	H412	Harmful to aquatic life with long lasting effects.
Hazardous to soil organisms	H421	Hazardous to soil organisms
Hazardous to terrestrial vertebrates	H433	Hazardous to terrestrial vertebrates

<b>Prevention Code</b>	<b>Prevention Statement</b>
P103	Read carefully and follow all instructions.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

P280	Wear protective clothing as detailed in Section 8.
<b>Response code</b>	<b>Response Statement</b>
P391	Collect spillage.
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.

<b>Storage Code</b>	<b>Storage Statement</b>
None allocated	

<b>Disposal Code</b>	<b>Disposal Statement</b>
P501	Refer to Section 13.

### Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Picloram	15.00	1918-02-1
Clopyralid	22.5	1702-17-6
Other ingredients determined not to be hazardous	To bal	

### Section 4. First Aid Measures

Routes of Exposure:

If in Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If on Skin After contact with skin, wash immediately with soap and water. Remove contaminated clothing. If skin irritation occurs: get medical advice/attention.

If Swallowed If swallowed do NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764766) or a doctor immediately.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Call a POISON CENTRE or a doctor immediately.

#### Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion:** Not applicable.

**Inhalation:** Not applicable.

**Skin:** Not applicable.

**Eye:** Causes serious eye irritation.

**Treatment:** Treat according to symptoms (decontamination, vital functions). No known specific antidote.

**General:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

### Section 5. Fire Fighting Measures

<b>Hazard Type</b>	This product is non-flammable.
<b>Hazards from products</b>	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion.

<b>Suitable Extinguishing media</b>	To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam.
<b>Recommended protective clothing &amp; Precautions for firefighters</b>	Wear SCBA and chemical-protective clothing.
<b>HAZCHEM CODE</b>	<b>2X</b>

## Section 6. Accidental Release Measures

### Personal precautions:

Use protective clothing as detailed in Section 8. Avoid contact with skin, eyes and clothing. Remove contaminated clothes and shoes immediately. Rewash contaminated clothing before reuse. No smoking in the area. Evacuate all unnecessary personnel.

### Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

### Spill and Disposal procedures:

Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely, according to local Council regulations.

## Section 7. Handling and Storage

### Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.
- Avoid contact with skin and eyes.
- Ventilation required.
- Wash body thoroughly after handling.

### Precautions for Storage:

- Store in a cool dry place away from children.
- Store in original container and keep tightly closed when not in use.
- Keep away from heat and protect from sunlight.
- Protect against freezing.
- Do not store near food or foodstuffs,
- Store away from incompatible materials listed in Section 10.

## Section 8 Exposure Controls / Personal Protection

### WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Picloram [1918-02-1]	-	10	-	-

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

### Engineering Controls / Industrial Hygiene

Ensure adequate ventilation.

## Personal Protection Equipment



<b>Eyes</b>	Wear safety goggles with side-shields.
<b>Hands</b>	Suitable chemical resistant safety gloves (e.g. nitrile rubber (.4mm)).
<b>Skin</b>	Body protection (chemical protection suit, boots) must be chosen depending on activity and possible exposure.
<b>Respiratory</b>	Wear respiratory protection if ventilation is inadequate. Particle filter with medium efficiency for solid and liquid particles.
<b>General</b>	Keep away from food, drink and animal feedstuffs. No eating, drinking or smoking during use and wash hands and face before breaks and after work.

### Section 9 Physical and Chemical Properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Brown
<b>Odour</b>	Characteristic
<b>Odour Threshold</b>	Not available
<b>pH</b>	8.0 – 10.0
<b>Melting Point/Boiling Point</b>	>100°C
<b>Freezing Point</b>	Not available
<b>Flash Point</b>	Not available
<b>Flammability</b>	Not available
<b>Upper and Lower Explosive Limits</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density</b>	Not available
<b>Density</b>	1120 – 1160 g/L
<b>Water Solubility</b>	Suspends in water
<b>Partition Coefficient:</b>	Not available
<b>Ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available
<b>Particle Characteristics</b>	Not available

### Section 10. Stability and Reactivity

<b>Stability of Substance</b>	Stable under normal storage and handling conditions.
<b>Possibility of hazardous reactions</b>	None under normal storage and use conditions.
<b>Conditions to Avoid</b>	None known.
<b>Incompatible Materials</b>	Strong acids, bases and oxidisers.
<b>Hazardous Decomposition Products</b>	Oxides of nitrogen, chlorine and carbon (including carbon monoxide and carbon dioxide).

### Section 11 Toxicological Information

#### Acute Effects:

<b>Swallowed</b>	Not applicable. LD50: > 5000 mg/kg
<b>Dermal</b>	Not applicable. LD50 >2000 mg/kg
<b>Inhalation</b>	Not applicable. > 1 g/L (4 hrs)
<b>Eye</b>	Causes serious eye irritation.
<b>Skin</b>	Not applicable.

#### Chronic Effects:

<b>Carcinogenicity</b>	Not applicable.
<b>Reproductive Toxicity</b>	Not applicable.

<b>Germ Cell Mutagenicity</b>	Not applicable.
<b>Aspiration</b>	Not applicable.
<b>STOT/SE</b>	Not applicable.
<b>STOT/RE</b>	Not applicable.

## Section 12. Ecotoxicological Information

<b>Ecological effects information</b>	Harmful to aquatic life with long lasting effects Hazardous to soil organisms Hazardous to terrestrial vertebrates
<b>Persistence and degradability</b>	No data available
<b>Bioaccumulation</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Other adverse effects</b>	No data available
<b>Acute fish toxicity:</b>	Picloram: LC50 (96 h) for rainbow trout 5.5, bluegill sunfish 14.5 mg/l Clopyralid: LC50 (96 h) for rainbow trout 103.5, bluegill sunfish 125.4 mg/l
<b>Toxicity for daphnia:</b>	Picloram: LC50 34.4 mg/l Clopyralid: EC50 (48 h) 225 mg/l. EC50 (21 d) immobilisation 69, reproduction 80 mg/l; NOEC 17 mg/l
<b>Toxicity to algae:</b>	Picloram: EC50 for Selenastrum 36.9 mg/l Clopyralid: EC50 (96 h) for Selenastrum capricornutum, cell count 6.9, cell volume 7.3 mg/l
<b>Precautions:</b>	Do not allow to enter waterways.

## Section 13. Disposal Considerations

### Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



### Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

**Precautions or methods to avoid:** Avoid release to the environment.

## Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2020**

## Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000762

<b>HSW (HS) Regulations 2017</b>	<b>Trigger Quantity</b>
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	1000L
Emergency Response Plan (Schedule 5)	1000L
Secondary Containment (Schedule 5)	1000L
Tracking (Schedule 26)	Not required

For all further controls	Refer to EPA <a href="http://www.epa.govt.nz">www.epa.govt.nz</a> for controls document - HSR000762
<b>HSNO Additional Controls (Restrictions of use)</b>	
77A	a) The substance must not be applied onto or into water.
77A	This substance is not to be used on turf. Treated vegetation shall not be disposed of at any green waste recycling centre.
<b>ACVM Act and Regulations</b>	
ACVM Approval No See <a href="http://www.foodsafety.govt.nz">www.foodsafety.govt.nz</a> for registration controls	P7670

## Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

### Glossary

EC <sub>50</sub>	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

### References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

### Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Adria, if further information is required.

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