

## SAFETY DATA SHEET

## Monarch®

Date of Issue: 28 January 2025

#### **1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION**

Chemical name of active ingredient(s):

Recommended use:

Supplier:

Clopyralid Picloram both as the monoethanolamine salt

Herbicide

UPL New Zealand Limited PO Box 51584, Pakuranga Auckland Phone 0800 100 325 www.upl-ltd.com/nz 0800 CHEM CALL (0800 243 622) 24 Hours

Emergency telephone number:

#### 2. HAZARDS IDENTIFICATION

Hazard Classification:



#### WARNING

GHS Classification:			
GHS classification:	GHS Classification and Category	Hazard Code	Hazard Statement
	Serious eye damage/eye irritation Cat. 2	H319	Causes serious eye irritation.
	Hazardous to the aquatic environment – Chronic Hazard, Cat 2 Hazardous to soil organisms.	H411	Toxic to aquatic life with long lasting effects.
	Hazardous to terrestrial verteb	orates.	
Required identification Details:	PRECAUTIONARY STATEMENTS		
	<b>PREVENTION</b> Any person purchasing, handling or disposing of this product mus suitably qualified		
	P102 - Keep out of reach of Children.		
	P103 - Read label before use.		
	P264 - Wash hands and face thoroughly after handling. P280 - Wear eye protection.		er handling.
			C C
	Do not apply directly into or ont	o water.	
	Take all reasonable steps to er		e substance does not cause
	any significant adverse effects area.		

Ecotoxic herbicide. Not to be used on turf. Treated vegetation shall not be disposed of at any green waste recycling centre. <b>RESPONSE</b>
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.
P391 - Collect spillage.
DISPOSAL
P501 - Dispose of contents/container in accordance with local
regulations.
<u>Container disposal:</u> Ensure the container is empty. Triple rinse empty container and add rinsate to the spray tank. Recycle empty container through Agrecovery® (0800 247 326, www.agrecovery.co.nz). Otherwise crush and bury in a suitable landfill. DO NOT reuse this container for any other purpose.
Product disposal: Dispose of this product only by using according to the
 label, or at an approved landfill or other approved facility.

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### Substance/preparation Information on hazardous ingredients

Common name	CAS No	%	
Clopyralid	1702-17-6	26.7	
Picloram	1918-02-1	6.7	

#### 4. FIRST-AID MEASURES

Description of necessary first aid measures:

Effects and symptoms <u>First-aid measures</u> Inhalation:	Keep calm, move to fresh air. Seek medical attention.
Ingestion:	Rinse mouth; do not induce vomiting. Seek medical attention.
Skin contact:	Remove contaminated clothing. Rinse skin immediately with running water
Eye contact:	Flush immediately with running water.

Notes to a physician:

#### **5. FIRE-FIGHTING MEASURES**

Extinguishing media: Hazardous thermal	Water spray or fog. Foam. Carbon dioxide. Dry powder.
(de)composition products:	During fire, smoke may contain original material in addition to combustion products of varying composition.
HAZCHEM Code:	2X
Protection of fire-fighters:	Wear protective clothing and use self-contained breathing apparatus.
	Keep containers cool by spraying with water. Contain run-off to prevent entry into water or drainage systems.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear suitable protective clothing (see Section 8).
	Provide sufficient ventilation and exhaustion.

Environmental precautions:	Avoid contact with skin, eyes and clothes. Prevent product from entering soil, drains or surface waters.
Methods for cleaning up:	Large Amounts: Do not allow spreading and pump into suitable containers. Remove and dispose of contaminated soil. Small Amounts: Cover spilled product with moisture binding material (e.g. Universal binding agent), take up mechanically and store in closed containers. Dispose of according to Section 13.

#### 7. HANDLING AND STORAGE

Handling:	<ul> <li>Keep out of reach of children</li> <li>Keep container tightly closed.</li> <li>Keep away from food, drink and animal feedstuffs.</li> <li>Do not breathe vapour. Avoid contact with skin.</li> <li>This material and its container must be disposed of in a safe manner.</li> <li>Wear suitable protective clothing and gloves.</li> <li>In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).</li> <li>In case of accident by inhalation: Remove casualty to fresh air and keep at rest.</li> </ul>
Storage:	Store product in compliance with local regulations. Store in a cool, dry, well-ventilated place in its original containers. Protect from excessive cold or heat.
Packaging materials:	

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Workplace Exposure Guidelines Exposure Standards:

#### Engineering measures

Exposure control measures:

# Personal Protective Equipment Detail specifications for equipment:

For most conditions no respiratory protection is needed. In case respiratory irritation is experienced, the use of an approved air- purifying respirator is recommended. In emergency conditions, use a self-contained breathing apparatus.
Protective suit, solid shoes
Chemical-resistant protective gloves to DIN 374-3 recommended materials: nitrile, Neopreen, vinyl. No data available for penetration time. Consult protective glove manufacturer for further information.
Wear safety, dustproof goggles or face protection.
After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, colour, etc.):	Liquid. Dark brown.
Odour:	Characteristic odour.
Odour threshold:	
pH:	6.0-8.0 (CIPAC MT 75.1)
Melting point/freezing point:	NA
Initial boiling point and boiling range:	NA

Flash point:	NA
Flammability (solid, gas):	Non-flammable (formulation based on water).
Upper/lower flammability or explosive limits:	NA
Vapour pressure:	NA
Vapour density:	ca. 1.14 g/cm3 (20°C)
Relative density:	NA
Solubility(ies):	NA
Partition coefficient: n-octanol/water:	NA
Auto-ignition temperature:	>625°C
Decomposition temperature:	NA
Kinematic viscosity:	NA
Particle characteristics:	NA

### **10. STABILITY AND REACTIVITY**

Stability: Conditions to avoid: Materials to avoid: Hazardous Decomposition Products: Hazardous polymerization:	Stable under normal ambient and anticipated storage conditions. Extreme temperatures. Strong basic, acidic or oxidising materials. None under normal conditions.
11. TOXICOLOGICAL INFORMATION <u>Clopyralid tech basis:</u> Acute toxicity – Oral: Acute toxicity – Dermal: Acute toxicity – Inhalation: Skin irritation: Eye irritation: Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Aspiration hazard: STOT-single exposure: STOT-repeated exposure:	LD <sub>50</sub> oral >3750 mg/kg, rat. LD <sub>50</sub> dermal >2000 mg/kg, rat. LD <sub>50</sub> inhalation > 0.38 mg/kg, rat. Not irritant (rabbit). Irritating to the eye (rabbit).
<u>Picloram Tech Basis:</u> Acute toxicity – Oral: Acute toxicity - Dermal: Acute toxicity – Inhalation: Skin irritation: Eye irritation:	LD <sub>50</sub> oral = 1061 mg/kg, mouse Irritating to the eye (mouse).
Respiratory or skin sensitization: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Aspiration hazard: STOT-single exposure: STOT-repeated exposure:	Not classified Not classified Not classified Not classified

### **12. ECOLOGICAL INFORMATION**

Ecology – general:

Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short- term (acute):	
Classification procedure - Hazard	
aquatic environment, short-term (	acute):
Clopyralid tech basis: Toxicity to fish:	LC <sub>50</sub> (96h) 103.5 mg/L rainbow trout
Toxicity to daphnia:	$EC_{50}$ (48h) 225 mg/L daphnia magna
Toxicity to algae:	EC <sub>50</sub> (96 h) 6.9 mg/L (cell count)
Toxicity to birds:	LD <sub>50</sub> >2.000 mg/kg, bobtail quail
Picloram tech basis: Toxicity to fish:	LC₅₀ (96h) 14.5 mg/L bluegill sunfish
Toxicty to daphnia:	$LC_{50}$ (48h) 34.4 mg/L daphnia magna
Toxicity to algae:	EC <sub>50</sub> (96 h) 36.9 mg/L
Toxicity to birds:	LD <sub>50</sub> >5.000 mg/kg, mallard duck
Toxicity to terrestrial vertebrates:	
Toxicity to terrestrial invertebrate	
Persistence and degradability:	Non-toxic to bees.
Bioaccumulative potential:	
-	
Partition coefficient n-octanol/water (Log Kow):	
Mobility in soil:	
Other adverse effects:	
13. DISPOSAL CONSIDERATIONS	
Methods of disposal:	Treated vegetation shall not be disposed of at any green waste recycling centre.
	Do not dispose of together with domestic waste. Product residues and
	contaminated packages should be transferred to a hazardous waste landfill
Empty container precautions:	according to local regulations. Triple rinse container and add recycle through the Agrecovery Programme. If this
Empty container precutions.	is not possible, bury in landfill.
	Avoid contamination of any water supply with chemical or empty container.
14. TRANSPORT INFORMATION - International transport regulations	
UN number:	UN3082
	2X
Class or Division:	9
5	NA
0 1	III Yes
	Environmentally Hazardous Substance Liquid N.O.S.
roper suppling name.	(Clopyralid & Picloram)
INTERNATIONAL AIR	
TRANSPORT ASSOCIATION (IATA):	
15. REGULATORY INFORMATION	
ACVM Registered Number:	P008319
HSNO Approval Code:	HSR100032

## **16. OTHER INFORMATION**

Original Issue Date: October 2011 Revision Date: 28 January 2025 Replaces: ES592

#### Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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