

SAFETY DATA SHEET

Monarch[®]

Date of Issue: 18th June 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s):

Recommended use:

Supplier:

Clopyralid 267 g/L + Picloram 67 g/L

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:

Required identification Details:

6.4A, 9.1B, 9.2A, 9.3C Any person purchasing, handling or disposing of this product must be suitably qualified.

Signal	Word: WARNING
Keep o	ut of reach of Children.
•	abel before use.

Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Very toxic to the soil environment. Harmful to terrestrial vertebrates.

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:

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Effects and symptoms	
First-aid measures	
Inhalation:	Keep calm, move to fresh air. Seek medical attention.
Ingestion:	Rinse mouth; do not induce vomiting. Seek medical attention.
-	l l
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 modio	Water enroy or fog. Foom. Carbon diavida, Dry nowdar
Extinguishing media: Hazardous thermal	Water spray or fog. Foam. Carbon dioxide. Dry powder.
	During fire, amplya may contain original material in addition to
(de)composition products:	During fire, smoke may contain original material in addition to
HAZCHEM Code:	combustion products of varying composition.
	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.
	Avoid contact with skin, eyes and clothes.
Environmental precautions:	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:	Keep out of reach of children
	Keep container tightly closed.
	Keep away from food, drink and animal feedstuffs.
	Do not breathe vapour. Avoid contact with skin.
	This material and its container must be disposed of in a safe
	manner.
	Wear suitable protective clothing and gloves.
	In case of accident or if you feel unwell, seek medical advice
	immediately (show the label where possible).
	In case of accident by inhalation: Remove casualty to fresh air and
e .	keep at rest.
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:	

Workplace Exposure Guidelines

Exposure Standards:

Engineering measures

Exposure control measures:

Personal Protective Equipment

Detail specifications for equipment:	
Respiratory system:	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.
Skin and body:	Protective suit, solid shoes
Hands:	Chemical-resistant protective gloves to DIN 374-3 recommended materials: nitrile, neoprene, vinyl. No data available for penetration time. Consult protective glove manufacturer for further information.
Eves:	Wear safety, dustproof goggles or face protection.
General hygiene:	After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Colour, Odour. pH (1%): Vapour Density: Boiling Point: Flash Point: Freezing/melting point: Solubility: Specific Gravity: Density: Information for flammable material: Auto-ignition temperature: Viscosity: Octanol/water partition coefficient: Explosive Properties: Oxidation Properties: Liquid. Dark brown. Characteristic odour. 6.0-8.0 (CIPAC MT 75.1) ca. 1.14 g/cm3 (20°C)

Non-flammable (formulation based on water).

Non-flammable. >625°C

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:

 $\begin{array}{l} LD_{50} \text{ oral } >3750 \text{ mg/kg, rat.} \\ LD_{50} \text{ dermal } >2000 \text{ mg/kg, rat.} \\ LD_{50} \text{ inhalation } > 0.38 \text{ mg/kg, rat.} \end{array}$

Primary skin irritation: Eye irritation:

Picloram tech basis: Acute toxicity - Oral: Eye irritation:

Chronic toxicity: **Carcinogenicity:**

Mutagenicity: Reproduction toxicity:

12. ECOLOGICAL INFORMATION

Clopyralid tech basis:

Toxicity to fish: Toxicity to daphnia: Toxicity to algae: Toxicity to birds:

Picloram tech basis:

Toxicity to fish: LC50 (96h) 1.55 mg/L, lake trout LC₅₀ (48h) 50.7 mg/L daphnia magna Toxicty to daphnia: Toxicity to algae: EC₅₀ (96 h) 36.79 mg/L Toxicity to birds: LD₅₀ >5.000 mg/kg, mallard duck

Bee toxicity

Non-toxic

13. DISPOSAL CONSIDERATIONS

Methods of disposal: <u>Empty container precautions:</u> 14. TRANSPORT INFORMATIO	Do not dispose of together with domestic waste. Product residues and contaminated packages should be transferred to a suitable incinerator or hazardous waste landfill according to local regulations. Avoid contamination of any water supply with chemical or empty container. ON - International transport regulations	
UN number: Hazchem: Class or Division: Subsidiary Class: Packing Group: Marine Pollutant: Proper shipping name: INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):	UN3082 2X 9 NA III Yes Environmentally Hazardous Substance Liquid N.O.S. (Clopyralid & Picloram)	
15. REGULATORY INFORMATION		
ACVM Registered Number:	P008319	
HSNO Approval Code:	HSR100032	

16. OTHER INFORMATION

Not irritant (rabbit). Irritant (rabbit).

LC₅₀ (96h) 103.5 mg/L rainbow trout

EC₅₀ (48h) 225 mg/L daphnia magna

EC₅₀ (96 h) 6.9 mg/L (cell count)

LD₅₀ >2.000 mg/kg, bobtail quail

 LD_{50} oral = 1061 mg/kg, mouse Irritating to the eye.

Not classified as carcinogenic, mutagenic, toxic for reproduction.

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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