

SAFETY DATA SHEET

Monarch®

Date of Issue: 18th June 2021

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

Chemical name of active ingredient(s): Clopyralid 267 g/L + Picloram 67 g/L

Recommended use: Herbicide

Supplier: UPL New Zealand Limited
PO Box 51584, Pakuranga
Auckland
Phone 0800 100 325
www.upl-ltd.com/nz

Emergency telephone number: 0800 CHEM CALL (0800 243 622) 24 Hours

2. HAZARDS IDENTIFICATION



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

Required identification Details: **Signal Word: WARNING**
Keep out of reach of Children.
Read label 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:

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.

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:

Water spray or fog. Foam. Carbon dioxide. Dry powder.

Hazardous thermal

(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.

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 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:

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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. Wear safety, dustproof goggles or face protection.

Eyes:

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.

Liquid. Dark brown. Characteristic odour.

pH (1%):

6.0-8.0 (CIPAC MT 75.1)

Vapour Density:

ca. 1.14 g/cm³ (20°C)

Boiling Point:

Flash Point:

Non-flammable (formulation based on water).

Freezing/melting point:

Solubility:

Specific Gravity:

Density:

Information for flammable material:

Non-flammable.

Auto-ignition temperature:

>625°C

Viscosity:

Octanol/water partition coefficient:

Explosive Properties:

Oxidation Properties:

10. STABILITY AND REACTIVITY

Stability:

Stable under normal ambient and anticipated storage conditions.

Conditions to avoid:

Extreme temperatures.

Materials to avoid:

Strong basic, acidic or oxidising materials.

Hazardous Decomposition

Products:

None under normal conditions.

Hazardous polymerization:

11. TOXICOLOGICAL INFORMATION

Clopyralid tech basis:

Acute toxicity – Oral:

LD₅₀ oral >3750 mg/kg, rat.

Acute toxicity - Dermal:

LD₅₀ dermal >2000 mg/kg, rat.

Acute toxicity – Inhalation:

LD₅₀ inhalation > 0.38 mg/kg, rat.

Primary skin irritation:	Not irritant (rabbit).
Eye irritation:	Irritant (rabbit).
<u>Picloram tech basis:</u>	
Acute toxicity – Oral:	LD ₅₀ oral = 1061 mg/kg, mouse
Eye irritation:	Irritating to the eye.
<u>Chronic toxicity:</u>	
Carcinogenicity:	Not classified as carcinogenic, mutagenic, toxic for reproduction.
Mutagenicity:	
Reproduction toxicity:	

12. ECOLOGICAL INFORMATION

Clopyralid tech basis:

Toxicity to fish:	LC ₅₀ (96h) 103.5 mg/L rainbow trout
Toxicity to daphnia:	EC ₅₀ (48h) 225 mg/L daphnia magna
Toxicity to algae:	EC ₅₀ (96 h) 6.9 mg/L (cell count)
Toxicity to birds:	LD ₅₀ >2.000 mg/kg, bobtail quail

Picloram tech basis:

Toxicity to fish:	LC ₅₀ (96h) 1.55 mg/L, lake trout
Toxicity to daphnia:	LC ₅₀ (48h) 50.7 mg/L daphnia magna
Toxicity to algae:	EC ₅₀ (96 h) 36.79 mg/L
Toxicity to birds:	LD ₅₀ >5.000 mg/kg, mallard duck

Bee toxicity	Non-toxic
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13. DISPOSAL CONSIDERATIONS

Methods of disposal:	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.
Empty container precautions:	Avoid contamination of any water supply with chemical or empty container.

14. TRANSPORT INFORMATION - International transport regulations

UN number:	UN3082
Hazchem:	2X
Class or Division:	9
Subsidiary Class:	NA
Packing Group:	III
Marine Pollutant:	Yes
Proper shipping name:	Environmentally Hazardous Substance Liquid N.O.S. (Clopyralid & Picloram)

**INTERNATIONAL AIR
TRANSPORT ASSOCIATION
(IATA):**

15. REGULATORY INFORMATION

ACVM Registered Number:	P008319
HSNO Approval Code:	HSR100032

16. OTHER INFORMATION

Additional information:

Original Issue Date: October 2011

Revision Date: 18 June 2021

Replaces: ES410

Disclaimer EXCLUSION OF LIABILITY: PLEASE READ

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