



# COBBER Herbicide

## 1. PRODUCT & COMPANY IDENTIFICATION

Product Identification: Cobber  
Product Use: Herbicide  
Company Identification: Rainbow & Brown Limited  
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## 2. HAZARDS IDENTIFICATION

Classified under the HSNO Act as:

- 9.1B Toxic to aquatic organisms
- 9.2A Very toxic in the soil
- 9.3C Harmful to terrestrial vertebrates

Refer to section 15 for ERMA requirements.

Note: This substance will inhibit the bacterial action required for efficient composting. Clippings from grass that has been sprayed with this substance are not to be made available to any green waste recycling centre.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Ingredient</i>	<i>CAS Number</i>	<i>Proportion</i>
• Clopyralid as the triisopropanolamine salt	1702-17-6	~51%
• Balance of ingredients not contributing to hazard		to 100%

#### 4. FIRST AID MEASURES

Eyes:	Flush with cold water immediately for at least 15 minutes. Seek medical advice.
Skin:	Wash skin well with soap and water. Wash contaminated clothing before re-use.
Ingestion:	Contact a doctor or Poisons Information Centre (0800 POISON – 0800 764 766). Do not induce vomiting or give liquid (beyond washing out mouth) unless instructed to do so following medical advice.
Inhalation:	If ill-effects occur, move to fresh air. If ill-effects persist seek medical attention.
Advice to Doctor:	No specific antidote. Treat symptomatically. If lavage is performed, suggest endotracheal or esophageal control. Damage from lung aspiration must be weighed against toxicity when considering emptying of stomach.

#### 5. FIRE FIGHTING MEASURES

Flash Point:	None
Flammable Limits:	Not applicable.
Extinguishing Media:	Water spray, dry chemical, foam, CO <sub>2</sub>
Fire & Explosion Hazards:	Toxic fumes and irritating vapours can be produced if active ingredients decompose in a fire. Eruption of containers is likely at very high temperatures. Intact containers should be cooled with water to reduce pressure.
Fire Fighting Equipment:	Use self-contained breathing apparatus and chemical-protective clothing including neoprene or rubber boots and gloves.
Fire Fighting Instructions:	Addition of water may cause excessive foaming. Do not allow contaminated water runoff to enter drains or waterways.
HAZCHEM:	2X

#### 6. ACCIDENTAL RELEASE MEASURES

Spills:	Use appropriate protective clothing and equipment including neoprene or rubber boots and gloves. Prevent further leakage. Absorb spilled liquid with clay, sand or other absorbent material and sweep to a waste container for disposal. DO NOT use water for cleanup unless it can be entirely contained and absorbed for disposal. Spills may be slippery and should be cleaned up promptly.
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## 7. HANDLING AND STORAGE

	Read the storage/handling precautions on the product label. Do not mix or store in galvanised or unlined steel.
Handling:	Avoid eye, skin & clothing contact. Avoid inhaling vapour, dust or spray mist. After work, remove protective clothing and equipment, wash hands before eating, drinking, smoking or using toilet. Wash clothing after use.
Storage:	Store in tightly closed original container in a cool, dry, well-ventilated and secure area when not in use. Do not store with food, feedstuffs, seed or fertilisers. Keep out of reach of children.

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

Exposure Guidelines:	Not established by OSHA.
Engineering Controls:	Use only with adequate ventilation.
Respiratory Protection:	No special precautions are necessary for respiratory protection under normal handling conditions. When exposed to vapours from heated material, use respirator with organic vapour canister or self-contained breathing apparatus.
Skin Protection:	Wear overalls and gloves while mixing or spraying.
Eye Protection:	Wear face shield/goggles while mixing or spraying.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green liquid
Odour:	None
Boiling Point:	c. 100-105°C
Specific Gravity:	1.176g/ml @ 20°C
pH:	5.0-8.0 (5% solution)
Vapour Pressure:	1.2 x 10 <sup>-5</sup> mmHg @ 25°C (clopyralid acid)
Solubility in water:	Miscible.

## 10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Incompatibility:	Avoid oxidisers and strong acids & bases.
Hazardous Decomposition Products:	Hydrogen chloride & other noxious fumes in fire.
Hazardous Polymerization:	Not known to occur.

## 11. TOXOLOGICAL INFORMATION

Eye:	May cause slight temporary eye irritation. Corneal injury is unlikely.
Skin:	Prolonged contact may cause skin irritation. Repeated prolonged exposure may cause allergic skin reactions in some individuals.
Ingestion:	Dermal LD50 (rabbit) >2000mg/kg Low toxicity if swallowed. Aspiration into lungs may occur during ingestion or vomiting causing lung damage or even death due to chemical pneumonia. LD50 (rat) >5000mg/kg.
Inhalation:	No adverse effects may be expected from a single exposure to vapour. Mist exposure may be irritating to upper respiratory tract. Aerosol LC50 (rat) >2.6mg/L for 4 hours.
Systemic (other organ) Effects:	In animals, effects have been reported on liver and kidneys. Observations in animals include: lethargy.
Cancer Information : Teratology:	Not carcinogenic in laboratory animals. Has caused birth defects in laboratory animals but only in greatly exaggerated doses that were severely toxic to mothers. No birth defects were observed in animals given doses several times greater than those expected during normal exposure.
Reproductive Effects:	In animal studies the active ingredient did not interfere with reproduction.
Mutagenicity:	In-vitro and animal genetic toxicity studies negative.

## 12. ECOLOGICAL INFORMATION

Environmental Fate:	(Based on information for the active ingredient)
	Movement & partitioning: Clopyralid is weakly sorbed (Mean Koc~5ml/g) indicating potential for mobility.
	Degradation & persistence: Not readily biodegradable (OECD test) but biodegradable under environmental conditions.
	(cont)

Ecotoxicity: (Based largely or completely on information for the active ingredient)  
Toxic to aquatic organisms on an acute basis (LC50 or EC50 6.9 mg/L in the most sensitive species tested).  
Highly toxic to plants by root & leaf uptake.  
Slightly toxic to birds or mammals (LD50 bird 1465mg/kg). Non-toxic to birds on a dietary basis.

ERMA classifies this product as 9.1B, 9.2A & 9.3C.

### 13. DISPOSAL CONSIDERATIONS

Disposal Method: Follow the label directions.  
Triple rinse empty containers before disposal.  
Do not burn empty containers that have not been rinsed. Burn in an appropriate incinerator if circumstances such as wind direction permit.  
Otherwise crush or puncture and bury in a suitably approved landfill. Do not dispose of this product down drains or sewers. Follow all local, regional and national laws and regulations regarding hazardous waste disposal.

### 14. TRANSPORT INFORMATION

Dangerous Goods Classification:

Shipping Name: Environmentally hazardous substance, liquid NOS (clopyralid)  
Class: 9  
UN Number: 3082  
Packaging group: III

### 15. REGULATORY INFORMATION

ACVM Registration No: P7790  
ERMA Approval No: HSR000761  
Approved Handler: Approved Handler certification is required (from August 2008) to purchase, handle or apply this product.  
Tracking: Not required.

## 16. OTHER INFORMATION

### Glossary

AEL	Acceptable Exposure Limit
DT <sub>50</sub>	Time (days) for 50% loss
EC <sub>50</sub>	Median effective concentration
EEL	Environmental Exposure Limit
ERMA	Environmental Risk Management Authority
HSNO	Hazardous Substances & New Organisms Act
Koc	Organic carbon partition coefficient (ml soil water/g organic carbon)
LFL	Lower Flammability Limit
LC <sub>50</sub>	Lethal Concentration in air or water for 50% of test organisms
LD <sub>50</sub>	Lethal Dose for 50% of test organisms
NOEL	No Observable Effect Level
OSHA	Occupational Safety & Health Administration (USA)
OSH	Occupational Safety & Health service (NZ)
PEL	Permissible Exposure Level
Pow	Octanol water partition coefficient (ratio of concentration of a chemical in octanol and water at equilibrium and at a specified temp.)
pH	Measure of acidity/alkalinity of a substance on a 1-14 scale (1=strong acid, 14 = strongly alkali)
STEL	Short Term Exposure Limit
TEL	Tolerable Exposure Limit
TLV	Threshold Limit Value – an exposure limit set by a competent authority
TWA	Time Weighted Average – average concentration of a chemical in air over a total exposure time (usually 8 hours)
UFL	Upper Flammability Limit
WES	Workplace Exposure Standard – set by ERMA/OSH

The data in this Safety Data Sheet relates only to this product alone, and not to its use in combination with other substances or products. In such circumstances, assuming the combination is permitted (refer to product labels, and contact manufacturers if in doubt), be guided by the most hazardous of the substances involved, and observe the more stringent of all hazard controls applicable to the products used.

Further Information:           Rainbow & Brown Limited  
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