



HERBICIDE

Cleo®

**A selective post-emergent herbicide for
annual and perennial grass control in orchards,
broadleaf crops and forestry**

Contains 240g/litre clethodim in the form
of an emulsifiable concentrate

WARNING // COMBUSTIBLE LIQUID // ECOTOXIC

Keep out of the reach of children

Net Contents **10 LITRES**

GROUP

1

HERBICIDE



agrisource.co.nz



READ LABEL COMPLETELY BEFORE USE



WARNING
Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways. May cause organ damage from repeated oral exposure at high doses.

FLAMMABLE
Combustible liquid. Keep away for hot surfaces and sources of ignition. No smoking.

ECOTOXICITY
Toxic to aquatic life with long-lasting effects. Do not apply onto or into water. Avoid contamination of any water supply with product or empty container. Hazardous to soil organisms.

HANDLING PRECAUTIONS - FOR WORKPLACE USE ONLY.

Personal Protection: Do not handle until all safety precautions have been read and understood. Do not breathe mist, or spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. When mixing or applying, avoid contact with skin and eyes. Wear full protective clothing, gloves and goggles. Wash hands and face before meals and after work. Wash protective clothing after work. Contaminated work clothing should not be allowed out of the workplace.

Equipment: Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Flush spray equipment thoroughly with water after use.

Storage: Store in original container tightly closed and in a locked, dry, cool, well-ventilated area away from fertilisers, feed, seeds, and foodstuffs. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals. Secondary containment and emergency response plans are required where 1000 L or more of this product are stored. Refer to the product SDS for further information. Store in original container tightly closed and in a locked, dry, cool, well ventilated area away from fertilisers, feed, seeds and foodstuffs. Keep out of reach of children. Store in accordance with NZ 8409 Management of Agrichemicals.

Shelf Life: When stored appropriately this product should show no significant degradation for two years from the date of manufacture.

Spillage: Move non-essential people from the area. Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Sweep up solids without creating dust. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

Product Disposal: Ensure unwanted product is used by another operator strictly in accordance with label directions.

Container Disposal: Triple rinse container and add rinsate to spray tank. Dispose of cleaned container at your local AGRECOVERY container collection site.

Safety Data Sheet: Additional information is provided in the SDS available from your supplier, or www.agrisource.co.nz

FIRST AID

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Rinse Mouth. DO NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician. For advice, contact the National Poisons Centre 0800 Poison (0800 764 766) or a doctor immediately. 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: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.

EMERGENCY RESPONSE

In case of fire: Use dry chemical, carbon dioxide, foam or water mist for extinction. In a transport emergency call 111, Police or Fire Brigade

IMPORTANT - RESISTANCE MANAGEMENT

Cleo contains the **GROUP 1 HERBICIDE** clothodim. Resistance to pesticides can develop from excessive use. To minimise this risk, avoid using this herbicide exclusively all season, avoid unnecessary spraying and endeavour to alternate with herbicides from other groups within the crop and in subsequent seasons for a sprayed paddock. Use strictly in accordance with label instructions. Maintain good cultural practices.

DIRECTIONS FOR USE

For best results apply to young actively growing weeds. Do not apply to plants under stress from drought or water logging. Use the lower rate on seedling weeds (2-5 leaf) or actively regenerating rhizomes and the higher rate on tilling plants or hardy rhizomatous grasses. On established sod-bound rhizomatous grasses in non-cultivated crops, suppression only may be obtained.

SPRAY DRIFT

Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area.

ADJUVANT

Always apply Peptoil® Spray Oil at 2L/ha with all **Cleo** herbicide treatments.

COMPATIBILITY

Compatible with terbutylazine and clopyralid herbicides. Otherwise, do not apply in combination with other herbicides as efficacy may be reduced.

MIXING

Partially fill the spray tank and add the correct amount of Peptoil Crop Oil. Agitate and then add the **Cleo** herbicide. Add the remainder of the water and agitate thoroughly before using. After standing, agitate spray solution well before re-using.

APPLICATION

Apply with conventional spraying equipment using 100-400 litres water per hectare. Use nozzles and pressures that produce a droplet size of 150-300 micrometers VMD. Refer to the manufacturer's recommendations for the appropriate nozzle and pressure combinations. Use the higher water rate for dense grass infestations.

RAINFALL

Cleo herbicide is considered to be rainfall if applied one hour prior to rainfall.

USE RATES

White Clover Seed Crops: Annual and perennial ryegrass. Apply 0.5 litres/ha plus 2 litres/ha Peptoil Crop Oil after closing up. After removing stock allow sufficient time for grasses to freshen up (5-10cm new growth) before applying **Cleo** herbicide.

Peas, Lentils, Oilseed Rape: Wild Oats. Apply 0.25 litres/ha plus 2 litres/ha Peptoil Crop Oil when the majority of wild oats are in the 2-5 leaf growth stage. A temporary effect on leaf colour and sheen may occur in peas. This has no adverse effect on crop vigour or yield.

Orchard Crops: Treat actively growing grass weeds as directed in the table. Apply as a directed spray to the base of the trees to avoid fruit contact.

Vegetable Crops: Treat actively growing grass weeds as recommended in the table. Do not apply more than 1 litre/ha on vegetable crops. Where no previous experience is available on a particular crop, treat a small area before applying widely. NB: ASPARAGUS – do not apply during the cutting period.

Forstry: (Radiata pine, Macrocarpa, Douglas fir). Treat actively growing grass seedlings as directed in the table but do not exceed 1 litre of **Cleo** herbicide per hectare.

Tree Release - Spot Treatment: Use 3.5 ml **Cleo** herbicide plus 10 ml Peptoil Crop Oil per litre of water. Apply 20 ml spray solution per square metre. To control broadleaf weeds and for residual weed control, apply in combination with a terbutylazine herbicide at recommended label rates.

Legume feeds (e.g., lucerne, lupins, clover, lotus, trefoil): To control annual and perennial ryegrass and other grass weeds as directed in the use rate table.

Fodder Brassica's: Apply when grass seedlings are small (typically 3-6 weeks after planting) and well before canopy closure. If tank mixing **Cleo** + Peptoil Crop Oil + broadleaf herbicides and/or insecticides, use Peptoil Crop Oil at 500ml/100L (maximum 2L/ha) and apply during cool conditions in the morning or evening.

Forage Herbs (e.g., plantain, chicory): To control annual and perennial ryegrass and other grass weeds. Do not apply **Cleo** to plantain seed crops after flower heads are first visible in the base of the plants. Use rates as directed in the table.

GRASSES CONTROLLED AND RECOMMENDED USE RATES	
GRASS SPECIES	RATES LITRES/HA
Wild oats, annual and perennial ryegrass, cocksfoot, barnyard grass, summergrass, floating sweet grass, canary grass, bristle grass, volunteer cereals.	0.25 – 0.5
Annual poa, smooth witchgrass, soft brome, phalaris, tall fescue, prairie grass, rigput brome, brown top, barley grass. Chewings fescue, Yorkshire fog and hairgrass not controlled at these rates (suppression only).	0.5 – 1.0
Couch, paspalum, Indian doab.	2.0 – 3.0

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

WITHHOLDING PERIODS

Vegetable crops 5 weeks
Legume crops, forage herbs, fodder brassica crops..... 3 weeks

CONDITIONS OF SUPPLY

All goods supplied by us are produced under rigid quality control procedures which assure the purchaser that at the time of sale they are physically suitable for use in the manner stated. However, to the extent permitted by law, buyers and/or users of the goods accept that neither the manufacturer, Agri Solutions Ltd as registrant, nor any other distributor have any liability or responsibility whatsoever for any loss, damage or injury whether in contract or tort, whether direct, indirect or consequential howsoever arising in connection with the supply of these goods.

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BATCH NO:

DATE OF MANUFACTURE:

24 HOUR EMERGENCY RESPONSE 0800 CHEMCALL (0800 243 622)