

DANGER - COMBUSTIBLE LIQUID
HARMFUL - KEEP OUT OF REACH OF CHILDREN. ECOTOXIC


ravensdown

HERBICIDE

GROUP 1

Execute[®] 360

A selective herbicide for
control of grass weeds in
broadleaf crops and forestry

ACTIVE INGREDIENT:

Contains 360g/L clethodim in the form of
an emulsifiable concentrate, 582g/L
dearomatised hydrocarbon solvent and
17.5g/L calcium dodecylbenzene sulfonate.



Registrant: Ravensdown Ltd

292 Main South Road
Hornby, Christchurch 8042
New Zealand
Phone: 03 353 4600

ravensdown.co.nz

BATCH:

D.O.M:

NET CONTENTS
5 Litres

ravensdown



EXECUTE® 360 | READ LABEL CAREFULLY BEFORE USING

This product must not be used for any purpose, or in any manner, contrary to the label unless authorised under appropriate legislation.

HAZARD CLASSIFICATION: 3.1D, 6.1E, 6.3A, 6.4A, 6.9B, 9.1C, 9.2A, 9.3C

QUALIFIED PERSON: This product must be under the control of a Qualified Person or Contractor, as per Part 4C of the Hazardous Property Controls EPA Notice.

FLAMMABILITY

Warning - Combustible Liquid. Keep away from sources of ignition.

TOXICITY

Harmful - May be harmful if swallowed. May be fatal if swallowed and enters airways. May cause skin or eye irritation. May cause organ damage from repeated oral exposure at high doses.

ECOTOXICITY

Harmful to aquatic organisms with long lasting effects. Avoid contamination of any water supply with chemical or empty container.

Very toxic to the soil environment. Harmful to terrestrial vertebrates. Selective herbicide - very toxic to some plant species. Decontaminate spray equipment before use on a sensitive crop.

Beware - apply this product carefully. Spray drift may cause serious damage to desirable plants. Ensure compliance with any relevant regional air management plans. Do not allow spray drift over aquatic environments. Do not apply directly into or onto water.

HANDLING PRECAUTIONS

STORAGE

Do not store near heat or flame. Keep out of reach of children. Store in accordance with NZS 8409 Management of Agrichemicals. Store in original container tightly closed in a locked, dry, cool, well ventilated area away from sources of heat and ignition, foodstuffs, fertilisers and seeds. DO NOT store this product with Class 1, 2, 3.2, 4 or 5 substances. Stores containing 100L of EXECUTE 360 require signage. 1000L require secondary containment. More than 1000L require emergency response plans. Stores containing 500L of EXECUTE 360 must have at least 2 fire extinguishers.

PERSONAL PROTECTION

Avoid contact with skin, eyes and do not inhale spray mist. When handling wear protective clothing such as chemical resistant gloves and boots, eye protection and overalls. Wash splashes of concentrate from skin and eyes immediately. Remove protective clothing and wash hands and face thoroughly before meals and after work. Do not eat, drink or smoke while using.

EQUIPMENT

Apply using well maintained and accurately calibrated equipment. Flush equipment thoroughly with clean water after use.

RECORD KEEPING

Records of use as described in NZS 8409 Management of Agrichemicals must be kept if using 3L or more of Execute 360 within 24 hours.

DISPOSAL

Triple rinse container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for disposal. Otherwise crush or puncture and bury in an approved landfill. Do not burn container. Do not use container for any other purpose. Dispose of product only by using according to label or dispose of safely at a managed landfill.

FIRST AID

If medical advice is needed, have product container or label at hand. If swallowed DO NOT induce vomiting. Contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before re-use. If splashed in eyes, wash out immediately with water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled, move the patient to fresh air immediately. Begin artificial respiration if breathing has stopped. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor if you feel unwell.

SPILLAGE

In case of spillage, extinguish all ignition sources. Wear appropriate protective clothing and prevent material from entering waterways. Exclude non-essential people from the area. Prevent material coming into contact with Class 1, 2, 3.2, 4 or 5 substances. Contain liquid spill and absorb with inert material such as soil or sand and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely in an approved landfill.

EMERGENCY RESPONSE

In transport emergency call 111, Police or Fire Brigade. For 24hr specialist advice in an emergency only call **0800 CHEMCALL (0800 243 622)**. In case of fire: Use water fog, foam, carbon dioxide or dry chemical for extinction.

SAFETY DATA SHEET

If additional safety information is required, refer to the Safety Data Sheet. For a copy contact the customer centre on 0800 100 123.

TRANSPORT

Do not carry more than 1L of EXECUTE 360 on a passenger service vehicle.

Registered Pursuant to the ACVM Act 1997 P9551.

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSN0 Act 1996, Code: HSR100921.

See www.epa.govt.nz for approval controls.

PHONE **0800 100 123**



AGRECOVERY

www.agrecovery.co.nz

Agrecovery is available on plastic containers up to 60L and for plastic or steel large drums from 61L - 1000L.

GENERAL DIRECTIONS

Before opening, carefully read warning statement, precautions instructions, first aid instructions and directions for use. EXECUTE 360 is taken up by the foliage and translocates to all parts of the target plant. Growth ceases almost immediately but symptoms are slow to appear, with plant death taking up to 4 weeks. EXECUTE 360 will not control broadleaf weeds or sedges.

Unless stated otherwise, always apply EXECUTE 360 with an emulsifiable mineral spraying oil such as Collaborate at 2L/ha. For best results apply to young actively growing grass weeds. Do not apply to plants under stress from drought or waterlogging. Use the lower rate on seedling grass weeds (2-5 leaf) or actively regenerating rhizomes, and the higher rate on tillering plants or hardy rhizomatous grasses. On established sod-bound rhizomatous grasses and established turf ryegrasses in non-cultivated crops, suppression only may be obtained. On crops which have been grazed, remove stock and allow grasses to freshen up for several days (5-10cm new growth) before application.

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

APPLICATION

EXECUTE 360 may be applied using conventional spraying equipment.

Boom: Use 100-400L of water per hectare. Use nozzles and pressures that produce a droplet size of 150-300 micrometers VMD. Refer to the manufacturers recommendations for the appropriate nozzle and pressure combinations

Handgun: Apply as a wetting spray to achieve full coverage of the plant. Use a No.4 tip at 500-2000kPa to deliver 1000-1500L of water per hectare.

Knapsack: Apply as a wetting spray to achieve full coverage of the plant using at least 500 litres of water per hectare.

SPRAYING OIL

Use EXECUTE 360 with a spraying oil such as COLLABORATE at 2L/ha to optimise grass weed control.

MIXING

Mix required quantity in spray tank partly filled with water and maintain agitation through filling and spraying. When appropriate, spray oil such as COLLABORATE should be added once EXECUTE 360 has been thoroughly mixed. When tank mixing with a compatible herbicide these should be thoroughly mixed and dispersed before EXECUTE 360 is added to the tank.

COMPATIBILITY

EXECUTE 360 may be used in mixture with Ravensdown Multiple, Purge and Terbafo. Do not apply within 7 days of a phenoxy herbicide.

RAINFALL

Rainfall within 1 hour of application may reduce the effectiveness of EXECUTE 360.

SPRAYER DECONTAMINATION

Before using EXECUTE 360, ensure the equipment has been fully decontaminated with the recommended procedure for the previous product (especially sulfonyl urea herbicides). Always wash tank and flush equipment thoroughly with clean water after use. To avoid subsequent injury to sensitive crops, immediately after spraying thoroughly remove all traces of EXECUTE 360 from mixing and spraying equipment as follows: DO NOT use chlorine based cleaners.

1. Drain tank, then flush tank, booms and hoses with clean water.
2. Quarter fill the tank with clean water and add 500g of an alkali detergent per 100L of water. Circulate through the system for at least 15 minutes with agitation then drain.
3. Drain the whole system.
4. Nozzles and filters should be removed and cleaned separately.
5. Finally, rinse tank thoroughly with clean water, flush through hoses and boom and allow to drain.

SHELF LIFE

When stored appropriately this product should show no significant degradation for two years from the date of manufacture. Contact your supplier for further information about the use of any product that is older than this.

WITHHOLDING PERIODS

Vegetable crops - 5 weeks

Legume crops, forage herbs and forage brassica crops - 3 weeks.

RESISTANCE MANAGEMENT

EXECUTE 360 is a member of the cyclohexanedione group of herbicides. EXECUTE 360 has the inhibition of acetyl CoA carboxylase mode of action. For weed resistance management, EXECUTE 360 contains a [GROUP 1 HERBICIDE]. Some naturally occurring weed biotypes resistant to EXECUTE 360 and other Group A Herbicides may exist through normal genetic variability in any weed population. These resistant individuals can eventually dominate a weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by EXECUTE 360 or other Group A Herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Ravensdown accepts no liability for any losses that may result from failure of EXECUTE 360 to control resistant weeds. To prevent or delay the development of resistance, use EXECUTE 360 in tank mixtures where appropriate, and/or in rotation with herbicides having a different mode of action against the weed. Refer to www.nzpps.org/resistance for further information.

CROPS and SITUATIONS

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.

Crop	Critical comments
White clover seed crops	Apply after closing up, to control annual and perennial grasses. On crops which have been grazed, remove stock and allow grasses to freshen up for several days (5-10cm new growth) before application.
Legume feeds, eg lucerne, lupins, clover, lotus and trefoil	To control annual and perennial ryegrass and other grass weeds.
Fodder brassicas	Apply when the grass seedlings are small (typically 3-6 weeks after sowing) and well before canopy closure.
Forage herbs, eg plantain and chicory.	To control annual and perennial ryegrasses and other grass weeds. Do not apply EXECUTE 360 to plantain seed crops after flower heads are first visible in the base of plants.
Orchards	To control actively growing grass weeds. Apply as a directed spray to the base of the trees to avoid fruit contact.
Vegetables	To control actively growing grass weeds. Do not apply more than 670ml/ha. Crop safety has been demonstrated in onions, carrots and lettuce. Where crop safety is unknown, a small area should be treated before widespread application. NB Asparagus, DO NOT apply during the cutting season.
Peas, lentils and oilseed rape	To control wild oats. Apply 170ml/ha when the majority of oats are in the 2-5 leaf growth stage. A temporary effect on leaf colour and sheen may occur in peas. This does not affect crop vigour or yield.
Forestry (Radiata pine, Macrocarpa, Douglas fir)	Do not exceed 670ml/ha. Tree release - spot treatment. Use 23ml EXECUTE 360 plus 100ml Collaborate Oil per 10L of water. Apply 20ml of spray solution per square metre. To control broadleaf weeds and for residual control, apply in combination with Terbafo at label rates.

GRASSES CONTROLLED AND RECOMMENDED USE RATES

Use EXECUTE 360 with a spraying oil such as COLLABORATE at 2L/ha to optimise grass weed control.

Grass weeds	Rate/ha
Wild Oats, annual and perennial ryegrass, cocksfoot, barnyard grass, summergrass, floating sweetgrass, canary grass, bristle grass, volunteer cereals, (NB turf ryegrasses and tillered cereals will only be suppressed at these rates)	170 - 330ml
Annual poa, smooth witchgrass, soft brome, phalaris, tall fescue, prairie grass, rigput brome, browntop, barley grass. NB - chewings fescue, Yorkshire fog and hargrass will be suppressed but not controlled at these rates.	330 - 670ml
Couch, paspalum, Indian doab	1.3 - 2.0L

WARRANTY AND LIMITATION

IMPORTANT: Read this notice before opening the container.

The registrant warrants that when packed the active ingredient of this product is as specified on this label within accepted analytical tolerances. The registrant gives only those other warranties that are required by law in relation to this product and limits its liability to the cost paid by the claimant for the product. The registrant declines all liability for damage resulting from the handling, storage or use of this product. The user bears the risk from the handling, storage or use of this product. The registrant is not liable for any use of this product which is contrary to the label directions given or any Act or Regulation.

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