

POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Nufarm
***Estercide*[®]800**
HERBICIDE

ACTIVE CONSTITUENT: 800 g/L 2,4-D
present as the ethyl ester

GROUP **II** HERBICIDE

For the control of broadleaved weeds in wheat and barley, and in fallow situations before direct drilling or sowing of cereals, grain legumes, canola and pastures in WA only.
THIS IS A PHENOXY HERBICIDE THAT CAN CAUSE SEVERE DAMAGE TO NATIVE VEGETATION AND SUSCEPTIBLE CROPS SUCH AS COTTON, GRAPES, TOMATOES, OILSEED CROPS AND ORNAMENTALS.



Grow a better tomorrow.

DIRECTIONS FOR USE**RESTRAINTS****GENERAL RESTRAINTS**

DO NOT USE in any state or territory except WA. Product **MUST BE USED** in accordance with relevant WA legislation and regulations. **NOTE: Refer to Department of Agriculture and Food for state restricted spray areas agric.wa.gov.au.**

DO NOT apply this product by aircraft or ground based misters. Apply **ONLY** by ground boom-spray (or knapsack if spot spraying).

DO NOT apply this product:

- in aquatic situations
- to rights of way
- as a harvest aid/salvage spray

DO NOT apply more than 700 mL of this product per ha.

DO NOT apply if heavy rains or storms are forecast within 3 days, or if any rain is likely within 6 hours.

DO NOT irrigate to the point of runoff for at least 3 days after application.

DO NOT apply if crop or weeds are stressed due to dry or excessively moist conditions.

SPRAY DRIFT RESTRAINTS

DO NOT apply by a vertical sprayer.

Specific definitions for terms used in this section of the label can be found at www.apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. The buffer zones in the relevant buffer zone tables below provide guidance but may not be sufficient in all situations. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one or two hours after sunrise.

DO NOT apply with spray droplets smaller than a **VERY COARSE spray droplet size category**

DO NOT apply within 2 km of potentially sensitive or susceptible aquatic areas, town sites or non-target vegetation. The latter includes commercial seedling and plant nurseries, horticultural crops, grapevines, tomato crops, intensive agricultural operations and wildflower processing crops, national parks, nature reserves, areas and aquaculture operations.

SITUATION & CROP	WEEDS	STATE	RATE	CRITICAL COMMENTS
Fallow spray prior to Direct Drilling or Sowing Winter cereals, Grain legumes, Pastures – non-legume, Canola	Refer to Weed Table 1	WA only	180-700 mL/ha	Observe the plant back periods given in the table in this leaflet. Must be tank mixed with a knockdown herbicide such as Nufarm CRUCIAL® Advanced Technology Herbicide, weedmaster® DST®, weedmaster® ARGO®, Gladiator® CT, weedmaster® DUO, Shirquat® 250 or Spray•Seed*/Revolver®. Select appropriate rate from the Weed Table. For skeleton weed, spraying should only be done 6-8 weeks before anticipated sowing date and subsequent cultivation limited to a minimum.
Wheat, Barley	Refer to Weed Table 2		700 mL/ha	Apply from first node stage (Z31) until the start of booting (when the head can be felt at the base of the stem).

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

PASTURE, CEREAL CROPS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 7 DAYS AFTER APPLICATION

WEED TABLE 1

WEED	RATE	CRITICAL COMMENTS
Amaranthus spp.	700 mL/ha	
Bathurst burr	700 mL/ha	Spray from seedling to pre-flowering.
California burr	700 mL/ha	Spray from seedling to pre-flowering.
Caltrop	500-700 mL/ha	Spray from seedling to pre-flowering.
Cape tulip	700 mL/ha	Spray before flowering.
Capeweed	450-700 mL/ha	Spray up to rosette stage.
Charlock	350 mL/ha	Spray up to rosette stage.
Clover	500-700 mL/ha	
Dead nettle	700 mL/ha	
Devil's claw	700 mL/ha	Spray prior to pods forming.
Dock	700 mL/ha	Spray at rosette stage to kill top growth only.
Fat hen	350-700 mL/ha	
Flatweed	700 mL/ha	
Fumitory - red	700 mL/ha	Spray up to rosette stage.
Fumitory - white	350-700 mL/ha	Spray up to rosette stage.
Goosefoots	700 mL/ha	
Hoary cress Whiteweed	700 mL/ha	Spray from late rosette to pre-flowering.
Hogweed/Wireweed	700 mL/ha	Spray up to rosette stage.
Horehound (seedlings)	700 mL/ha	Late Autumn to early Spring.
Iron weed, Corn gromwell	700 mL/ha	
Lincoln weed	700 mL/ha	Autumn spray before sowing improves control.

WEED	RATE	CRITICAL COMMENTS
London rocket	500 mL/ha	
Lupins	350-700 mL/ha	Spray up to rosette stage.
Melilotus/Hexham scent	700 mL/ha	Spray up to rosette stage.
Melons - Camel, Paddy	350-700 mL/ha	
Mustards	200-700 mL/ha	Spray up to rosette stage.
Mexican poppy	700 mL/ha	Spray rosette stage and before flowering.
Mintweed	500-700 mL/ha	
Muskweed	700 mL/ha	Spray up to rosette stage.
New Zealand spinach	700 mL/ha	
Noogoora burr	700 mL/ha	Spray seedling to pre-flowering.
Paterson's curse	700 mL/ha	Spray seedling to rosette stage.
Poppy wild	350 mL/ha	Spray up to rosette stage.
Rough poppy	350-700 mL/ha	Spray young seedlings only.
Safflower	350-700 mL/ha	
Shepherd's purse	700 mL/ha	
Skeleton weed	700 mL/ha	Spray rosettes before aerial growth commences.
Stingless nettle (Dead nettle)	700 mL/ha	
Stinging nettle	700 mL/ha	Spray up to rosette stage.
Stinkwort	700 mL/ha	Spray younger plants.
Storksbill/Erodium	700 mL/ha	
Sunflower seedlings	350-700 mL/ha	Spray multiple leaves.
Thistle	350-700 mL/ha	Spray up to rosette stage.
- Saffron		
- Slender/Shore	700 mL/ha	Spray at rosette stage.
- Spear	700 mL/ha	Spray at seedling to rosette stage.
- Star	700 mL/ha	Spray seedling to rosette stage.
- Variegated	350-700 mL/ha	Spray at rosette stage. Can cause stock poisoning.
Thornapple	350-700 mL/ha	Spray at seedling stage.
Tree hogweed	700 mL/ha	Spray up to rosette stage.
Turnip weed	350-700 mL/ha	Spray seedlings only.
Vetches/Tares	550-700 mL/ha	
Volunteer canola	350-700 mL/ha	Spray up to rosette stage.
Ward's weed	350 mL/ha	Spray at seedling stage.
Wild cabbage	700 mL/ha	Spray up to rosette stage.
Wild radish	350-700 mL/ha	Spray up to rosette stage.
Wild turnip	180-700 mL/ha	Spray up to rosette stage.

WEED TABLE 2 (700 mL/ha for all weeds)

WEED	CRITICAL COMMENTS
Amaranthus spp.	
Bathurst burr	Spray from seedling to pre-flowering.
California burr	Spray from seedling to pre-flowering.
Caltrop	Spray from seedling to pre-flowering.
Cape tulip	Spray before flowering.
Capeweed	Spray up to rosette stage.
Charlock	Spray up to rosette stage.
Clover	
Dead nettle	
Devil's claw	Spray prior to pods forming.
Dock	Spray at rosette stage to kill top growth only.
Fat hen	
Flatweed	
Fumitory - red	Spray up to rosette stage.
Fumitory - white	Spray up to rosette stage.
Goosefoots	
Hoary cress Whiteweed	Spray from late rosette to pre-flowering.
Hogweed/Wireweed	Spray up to rosette stage.
Horehound (seedlings)	Late Autumn to early Spring.
Iron weed, Corn gromwell	
Lincoln weed	Autumn spray before sowing improves control.
London rocket	
Lupins	Spray up to rosette stage.
Melilotus/Hexham scent	Spray up to rosette stage.
Melons - Camel, Paddy	
Mustards	Spray up to rosette stage.
Mexican poppy	Spray rosette stage and before flowering.
Mintweed	
Muskweed	Spray up to rosette stage.
New Zealand spinach	
Noogoora burr	Spray seedling to pre-flowering.

WEED	CRITICAL COMMENTS
Paterson's curse	Spray seedling to rosette stage.
Poppy wild	Spray up to rosette stage.
Rough poppy	Spray young seedlings only.
Safflower	
Shepherd's purse	
Skeleton weed	Spray rosettes before aerial growth commences.
Stingless nettle (Dead nettle)	
Stinging nettle	Spray up to rosette stage.
Stinkwort	Spray younger plants.
Storksbill/Erodium	
Sunflower seedlings	Spray multiple leaves.
Thistle	Spray up to rosette stage.
- Saffron	
- Slender/Shore	Spray at rosette stage.
- Spear	Spray at seedling to rosette stage.
- Star	Spray seedling to rosette stage.
- Variegated	Spray at rosette stage. Can cause stock poisoning.
Thornapple	Spray at seedling stage.
Tree hogweed	Spray up to rosette stage.
Turnip weed	Spray seedlings only.
Vetches/Tares	
Volunteer canola	Spray up to rosette stage.
Ward's weed	Spray at seedling stage.
Wild cabbage	Spray up to rosette stage.
Wild radish	Spray up to rosette stage.
Wild turnip	Spray up to rosette stage.

GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions. **DO NOT** apply by air. **DO NOT** spray in high winds. **DO NOT** spray crops or weeds outside the stages indicated in the Critical Comments as damage, loss of yield or inadequate weed control may result.

CROP ESTABLISHMENT

Plant back days for Nufarm Estercide 800

Crop	Rates	
	Up to 440mL/ha	440-700mL/ha
Balansa clover	7	7
Barley	1	1
Canola	14	21
Chickpeas	7	14
Cotton	10	14
Faba beans	7	7
Field peas	7	14
Lentils	7	7
Linseed	7	7
Lucerne	7	7
Lupins	28	28
Medics	7	7
Narbon beans	7	7
Navy beans	10	10
Oats	3	3
Perennial ryegrass	7	7
Persian clover	7	7
Phalaris	7	7
Rice	7	7
Safflower	7	14
Sorghum	3	7
Soybean	14	14
Sub-clover	7	7
Sunflower	7	10
Triticale	1	3
Vetch	7	7
Wheat	1	3
White clover	7	7

IMPORTANT:

WHEN APPLIED TO DRY SOILS AT LEAST 15MM OF RAIN MUST FALL PRIOR TO THE COMMENCEMENT OF THE PLANT BACK PERIOD.

APPLICATION INFORMATION

This product may be used in either high or low volume sprays. Just pour into water and agitate.

Boom Spraying - Use 50-120 L water per ha.

SPRAY APPLICATIONS AND DRIFT RISK ASSESSMENT



Checklist:

- Have you cleaned/decontaminated your boom sprayer?
- Have you contacted your neighbour prior to spraying?
- Is your sprayer set-up correctly for the particular application?
- Check
 - boom calibration
 - at nozzle - nozzle choice
 - low drift/what spray quality
 - very coarse or larger spray quality?
 - boom height - speed of intended application
 - water volume
- You must check, determine and record the weather conditions immediately prior to, and immediately after the spray application is made.
- Record
 - Temperatures
 - Relative Humidity
 - Delta T
 - Wind speed
 - Is there a temperature inversion?
- Night Spraying - Extra care is required to ensure that inversion conditions are not present. Use smoke generator to determine wind direction and presence of inversion conditions.

For further information refer to nufarm.com.au/spraywise



spraywisedecisions.com.au is an online weather forecasting program and is recommended for use when planning your pesticide application

When spraying in or near areas with sensitive crops such as cotton, check online at satacrop.com.au for the proximity of sensitive crops mapped by growers.

EQUIPMENT MAINTENANCE AND USAGE

Keep the spray unit for herbicides only if possible. Otherwise wash out the unit with Nufarm Tank & Equipment Cleaner or hot soapy water followed by several clear water rinses. Hoses cannot be cleaned and new hoses should be fitted when the unit is to be used for any other purpose.

HERBICIDE RESISTANCE WARNING

GROUP	HERBICIDE
I	

Nufarm Estercide 800 Herbicide ("Estercide 800") is a member of the Phenoxy group of herbicides. Estercide 800 has the disruptors of plant cell growth mode of action. For weed resistance management Estercide 800 is a Group I herbicide. Some naturally occurring weed biotypes resistant to Estercide 800 and other Group I herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Estercide 800 or Group I herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Limited accepts no liability for any losses that may result from the failure of Estercide 800 to control resistant weeds.

COMPATIBILITY

Archer® 750, Associate®, Atradex®, Collide 700®, Comet® 400, CRUCIAL®, Gladiator® CT, Glean*, Kamba® 750, Liase®, Revolver®, Simagranz®, Spray•Seed*, weedmaster® ARGO, weedmaster® DST, weedmaster® DUO

PRECAUTIONS

RE-ENTRY PERIOD

If re-entering treated areas before the spray has dried, workers should wear overalls, elbow-length gloves and water-resistant footwear.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants, crops, cropping lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

PROTECTION OF LIVESTOCK

Low hazard to bees. May be applied on any plants at any time as recommended.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate streams, rivers or waterways with the chemical or used container.

INTEGRATED PEST MANAGEMENT

Toxic to beneficial arthropods. Not compatible with integrated pest management (IPM) programs utilising beneficial arthropods. Minimise spray drift to reduce harmful effects on beneficial arthropods in non-crop areas.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. **DO NOT** store for prolonged periods in direct sunlight.

Non-refillable containers

Triple-rinse containers before disposal. Add rinsings to spray tank. **DO NOT** dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. **DO NOT** burn empty containers or product.

Refillable containers

Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

SAFETY DIRECTIONS

HAZARDS & PRECAUTIONS

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Avoid contact with the eyes and skin. **DO NOT** inhale vapour.

MIXING OR USING

Mixing and loading with open systems: When opening the container and preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length chemical resistant gloves and face shield or goggles.

Mixing and loading with closed systems: When opening the container and preparing the spray, wear cotton overalls over normal clothing and elbow length chemical resistant gloves.

When using the prepared spray: wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length chemical resistant gloves. If applying by hand wear half facepiece respirator with organic vapour/gas cartridge or canister. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water.

AFTER USE

After use and before eating, drinking or smoking wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, respirator and if rubber wash with detergent and warm water, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Suspected of causing cancer. May be fatal if swallowed and enters airways. Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Causes mild skin irritation. Combustible liquid. Obtain, read and follow all safety instructions before use. Avoid breathing vapours or spray. Wash hands and exposed skin thoroughly after handling. **DO NOT** eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Get emergency medical help immediately. **DO NOT** induce vomiting. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical help. Take off contaminated clothing and wash it before reuse. IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Collect spillage.

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS) which can be obtained from your supplier or from the Nufarm website – www.nufarm.com.au

In case of emergency: Phone 1800 033 498 Ask for shift supervisor. Toll free 24 hours.

CONDITIONS OF SALE

"Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute."

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