

DANGER – CORROSIVE – keep out of reach of children
ECOTOXIC – Not for use in home gardens



Tordon™
PastureBoss™

HERBICIDE

ACTIVE INGREDIENT: Contains 30 g/litre aminopyralid as the triisopropanolammonium salt plus 200 g/litre triclopyr as the triethylamine salt in the form of a soluble concentrate

GROUP 03 HERBICIDE

A selective herbicide for the control of annual and perennial broadleaf weeds in pastures

READ THIS LABEL COMPLETELY BEFORE MIXING OR APPLYING

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HAZARD CLASSIFICATION

8.1A, 6.1E, 8.3A, 6.5B, 6.9B, 9.1A, 9.2A, 9.3C

APPROVED HANDLER: This product must be under the personal control of an approved handler when:

- a) applied in a wide dispersive manner; or
- b) used by a commercial contractor.

DO NOT apply into or onto water.

RECORD KEEPING

Records of use, as described in relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L is applied or discharged within 24 hours in a place where members of the public may be present or where the substance may enter air or water and leave the place.

PROHIBITED USES

Use on turf including lawns and playing fields is prohibited.

CORROSIVITY

CORROSIVE to metals and eyes.

TOXICITY

HARMFUL – may be harmful if swallowed or inhaled. May cause sensitisation from prolonged skin contact. May cause organ damage from repeated oral exposure at high doses. Avoid contact with the skin. Avoid breathing spray mist. **DO NOT** eat, drink or smoke while using. Remove protective clothing immediately after handling this product and wash hands and face before meals and after work.

CORROSIVE TO THE EYE. Causes irreversible eye damage. Avoid contact with the eyes.

ECOTOXICITY

VERY TOXIC TO AQUATIC ORGANISMS. **DO NOT** contaminate an aquatic environment with chemical or empty container. **DO NOT** spray over, or allow drift over, an aquatic environment.

SELECTIVE HERBICIDE – VERY TOXIC TO SOME PLANT SPECIES. Certain plants may be damaged or killed from root or foliar uptake of this substance. **DO NOT** allow drift outside the target area to occur. See the Protection of the Environment section below.

HARMFUL TO TERRESTRIAL VERTEBRATES. **DO NOT** allow birds or animals access to the undiluted chemical.

HANDLING PRECAUTIONS

EQUIPMENT

Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

STORAGE

Store in the original container, tightly closed, away from foodstuffs. Avoid contamination of seeds, fertilizers and other pesticides. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Stores containing 100L or more of **TORDON PASTUREBOSS** require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

PERSONAL PROTECTION

When mixing or applying wear eye protection, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, chemical resistant boots and cotton overalls buttoned to the neck and wrist.

SPILLAGE

Wear appropriate protective clothing. In case of spill or leak on a hard surface soak up with vermiculite, earth, sand or synthetic absorbent. Sweep up contaminated material and place in drums for disposal at a licensed local authority landfill. Wash area with water and alkaline detergent then absorb any remaining liquid with further inert material. Report large spills to Corteva Agriscience Emergency Services at 0800 844 455.

DISPOSAL

Triple rinse empty container and add rinsate to spray tank. Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues (liquid and dry) and have an intact legible label should be taken to an Agrecovery collection site. Otherwise crush and bury in a suitably approved landfill. **DO NOT** burn empty containers.

Dispose of unused product only by using it according to the label, via Agrecovery (visit www.agrecovery.co.nz or call 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical acceptable for disposal), or at an approved landfill. **DO NOT** burn.

Dispose of equipment cleaning water onto ground away from susceptible crops and plants.

DO NOT dispose of this product; spray mix or equipment cleaning water down drains or sewers.

FIRST AID

If swallowed **DO NOT** induce vomiting. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. If splashed in eyes, wash out immediately with water. If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

SAFETY DATA SHEET

A Safety Data Sheet for **TORDON PASTUREBOSS** is available from Corteva Agriscience on request. Call Customer Service Toll Free on 0800 803 939 or visit www.corteva.co.nz.

TRANSPORT

DO NOT carry on a passenger service vehicle

NOTICE

Important: You must read the warning and conditions given on this label. If they are not acceptable, or if you are in doubt as to the proper handling of this product (including its transport, storage, use, disposal and requirements for approved handlers [if applicable]) then return the unopened product to the supplier at once.

Warning: This product is subject to controls and could be hazardous if handled incorrectly. The **user is responsible** for ensuring that the handling of this product is in accordance with the law (including the *Hazardous Substances and New Organisms Act 1996* and the *Agricultural Compounds and Veterinary Medicines Act 1997*) and with the directions provided. The Registrant declines all liability (whether in contract, tort (including but not limited to negligence), or otherwise) to the maximum extent permitted by law in relation to the handling of this product in a manner which is contrary to the directions given or to any applicable Acts, Regulations or Guidelines.

Further information regarding the applicable Acts, Regulations and Guidelines for the proper handling of this product may be obtained by contacting EPA New Zealand (www.epa.govt.nz) or the Ministry for Primary Industries (MPI) (www.foodsafety.govt.nz).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

WITHHOLDING PERIODS (WHP):

It is an offence for users of this product to cause residues exceeding the relevant MRL in the New Zealand (Maximum Residues Limits of Agricultural Compounds) Food Standards.

PASTURE

ANIMAL SAFETY/PRECAUTION

Grazing pasture immediately after application of TORDON PASTUREBOSS is safe for animals. However, poisonous plants (including but not limited to capeweed, goats rue and ragwort) may become more palatable after spraying. If concerned that stock health may be affected, stock should be kept away from the treated area until plants have died down.

RESIDUES

Meat: Animals grazing pasture more than 7 days after treatment with **TORDON PASTUREBOSS**, may be sent for slaughter. Animals grazing treated pasture within 7 days of application, must be grazed for at least 4 days on clean feed before being sent for slaughter. Clean feed is a paddock where there is no grazing restriction in force at the time of grazing.

Cutting for animal feed e.g hay or silage: **DO NOT** cut treated paddocks for animal feed for 12 weeks after application.

Milk: **DO NOT** graze animals currently being milked on areas treated with **TORDON PASTUREBOSS** within 3 days of application.

RESISTANCE MANAGEMENT

GROUP 03 HERBICIDE

TORDON PASTUREBOSS is a pyridine carboxylic-acid herbicide (Group 03). Some naturally occurring individual weeds may become resistant when excessive use of the same herbicide occurs. To maximize the effectiveness of herbicides, products containing alternate modes of action should be used in the spray program. Consult <http://resistance.nzpps.org/> for alternate modes of action and the details of resistance management strategies (if any) for the crops listed on the label.

PROTECTION OF THE ENVIRONMENT

DO NOT use on turf.

DO NOT allow the spray to drift onto susceptible crops, see re-establishment of pastures and planting of crops section. Use under meteorological conditions and with spraying equipment that will minimise drift. See Application Method section.

DO NOT apply close to, or on, areas where treated soil or surface water may run off to areas containing, or are to be planted with, susceptible plants.

DO NOT use plant material that has been treated with **TORDON PASTUREBOSS** within the previous 12 weeks for making compost, mushroom substrate or mulching susceptible crops – see the Crop Rotation section.

Animal Waste – Pastures

DO NOT use animal waste (e.g. manure, slurry, paunch grass) from animals grazing pasture treated with **TORDON PASTUREBOSS** within the previous 12 weeks for making compost or mulching susceptible crops. Animals become residue free after grazing for 4 consecutive days on clean feed. **Clean feed is a paddock where there is no withholding period or grazing restriction for TORDON PASTUREBOSS or any other product in force at the time of grazing.**

DO NOT apply animal waste (e.g. manure, slurry), from animals grazing treated pastures with **TORDON PASTUREBOSS** within the previous 12 weeks, to susceptible crops, or to land used for growing susceptible crops – see the Crop Rotation section.

Unless fed on clean feed (see above for clean feed explanation) for 4 days, the purchaser of animals grazing on pasture treated with **TORDON PASTUREBOSS** within the last 12 weeks must be advised that paunch grass, manure and slurry from these animals may contain residues and hence the purchaser must follow the relevant Protection for the Environment restrictions on this label. This restriction is no longer required once 12 weeks has elapsed from treatment to grazing.

DO NOT plant a susceptible crop in fields treated in the previous year with manure from animals that have grazed treated pasture within 12 weeks of application until a field bioassay shows that the residue concentration in the soil is at level that is not injurious to the crop to be planted – see the Crop Rotation section.

- To promote herbicide decomposition, manure should be evenly incorporated in the surface soil. Breakdown of residues in plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

Dairy and feed pad effluent. Effluent from animals grazing treated pasture within 12 weeks of treatment may contain residues. Effluent from these animals may contain residues for 4 days after removal of the animals from the **TORDON PASTUREBOSS** treated pasture. Disposal of this effluent by irrigation may cause damage to clover and other sensitive crops during this 4 day period.

DO NOT send off-farm any effluent (or compost made from it) from animals that have grazed on pasture treated with **TORDON PASTUREBOSS** within the last 12 weeks until the animals have grazed for 4 days on clean feed (see above for clean feed explanation). This restriction is no longer required once 12 weeks has elapsed from treatment to grazing.

CROP ROTATION

RE-ESTABLISHMENT OF PASTURES AND PLANTING OF FOLLOWING CROPS

The rate of decline of soil residues is dependent on several factors (including soil type and rainfall) and will vary from district to district. Under low rainfall conditions (less than 800mm per year) or in heavy, poor draining soil, delay planting of susceptible crops for at least 2 years. To promote herbicide decomposition, plant residues from the treated paddock should be evenly incorporated in the surface soil. Breakdown of residues in plants or manure is more rapid under warm, moist soil conditions and may be enhanced by supplemental irrigation.

TORDON PASTUREBOSS is injurious to legumes and other broadleaf plants. Residues in the soil may prevent their early re-establishment after treatment. Susceptible crops and plants include but are not limited to, flowers, fruit trees, legumes, ornamentals, potatoes, shade trees, squash, tomatoes, vegetables, or vine crops. Susceptible crops and plants may be damaged by this herbicide during both growing and dormant periods. If in doubt regarding other crops, or for further information consult a Corteva Agriscience representative.

Following Crop	Comments
Clovers and chicory	After "spot" spraying extensive areas, or boom spraying, with TORDON PASTUREBOSS , allow a minimum of 6 months, before planting or oversowing clover or chicory.
Forage brassicas	After "spot" spraying extensive areas, or boom spraying, with TORDON PASTUREBOSS , allow a minimum of 3 months before planting forage brassicas. Use T-Max for "spot" spraying extensive areas, or boom spraying, broadleaf weeds, within 3 months of planting forage brassicas.
Maize	After "spot" spraying extensive areas, or boom spraying, with TORDON PASTUREBOSS , allow a minimum of 1 month before planting maize. Use T-Max for "spot" spraying extensive areas, or boom spraying, broadleaf weeds, within 1 month of planting maize.
Cereals and annual or perennial ryegrass	May be sown at any time following pasture treated with TORDON PASTUREBOSS .
Deep ploughing, to completely invert the soil, followed by surface cultivation will assist breakdown of soil residues and is recommended before planting clovers, chicory, forage brassicas, maize and other sensitive crops listed below. If in doubt, conduct the bioassay described below and/or consult Corteva Agriscience.	
Potatoes, peas, lucerne, beans, cucurbits, tomatoes, vegetable crops (other than brassicas and sweet corn), vine and tree crops and other crops which are highly susceptible to TORDON PASTUREBOSS .	DO NOT sow for at least 18 months after applying TORDON PASTUREBOSS and not until after the bioassay described below has demonstrated that it is safe to do so. DO NOT use TORDON PASTUREBOSS if it is necessary to sow these susceptible crops within the above-suggested periods.

SOIL BIOASSAY

A simple bioassay can be conducted by collecting at least 10 spade spits of soil to a depth of 200 mm from around the paddock and thoroughly mixing the soil together. Place some of this soil in a shallow container to a depth of 3-5cm and sow 100 seeds of the susceptible crop to be grown into the soil. (Subterranean or white clover is a good indicator plant where it is not practical to use the susceptible crop). Keep in a warm and well lit situation and ensure the soil does not dry out. After crop emergence, check the number of plants that have germinated and seedling vigour. Symptoms of **TORDON PASTUREBOSS** residues include low or non-germination and emergence, leaf cupping, leaf whitening, stem elongation and twisting. If these symptoms occur – **DO NOT** plant the susceptible crop. Repeat the bioassay again after a further time interval.

APPLICATION METHODS

Knapsack: Apply as a light wetting spray to full coverage.

High volume: Apply as a light wetting spray to full coverage using either a hand lance fitted with a solid cone nozzle or a handgun fitted with a number 4 tip at 500 kPa.

Boom spraying: Use a minimum 200 litres of water per hectare applied as at least a medium quality spray as defined by the British Crop Protection Council (BCPC) system or the American Society of Agricultural and Biological Engineers (ASABE - S572).

Aerial spraying: Not approved for aerial application.

Carpet type weedwiper: Ensure the wiper remains saturated while in use. Two passes in opposite directions are recommended. Drain and wash the wiper with water immediately after use.

IMPORTANT: In order to select the appropriate nozzles for the required spray quality and operate the equipment to minimize spray drift this product must be applied in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

MIXING

Pour the measured quantity of **TORDON PASTUREBOSS** into a partially filled spray tank and add the remainder of the water. Agitate thoroughly during filling. **When using marker dyes follow the mixing instructions recommended on the marker dye label.**

DECONTAMINATION

CLEANING SPRAY EQUIPMENT

Rinse water should be discharged onto a designated disposal area or, if this is unavailable, onto wasteland away from susceptible plants and drains, sewers and water courses.

Rinsing: Empty the tank completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain and clean any filters in the tank, pump, lines, hoses and nozzles. After cleaning the tank as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination: Quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L water and circulate throughout the system for at least 15 minutes. If using a concentrated laundry detergent use 250g (or mL)/100L water. **DO NOT** use chlorine based cleaners.

Drain the whole system. Remove filters and nozzles and clean them separately. Finally flush the system with clean water and allow draining.

DIRECTIONS FOR USE:

- **TORDON PASTUREBOSS** controls many herbaceous broadleaf weeds.
- Best results are achieved by spraying weeds during the active vegetative growth stage.
- All spray applications should ensure complete coverage of the target weed.

RAINFASTNESS

DO NOT apply if rain is likely within one hour.

SPOT APPLICATION – PASTURE

(DO NOT apply more than once per season to same target plant)

WEEDS	Knapsack or Battery Powered Motorbike Sprayers	High Volume gun and hose	COMMENTS
	ml/10 litres	ml/100 litres	
Ragwort and thistles (except Californian thistles)	60	200	Rosette and multicrowned plants.
		250	Early flowering plants.
Californian thistle, Cape weed, Docks, Foxglove, Goats rue, Hedge mustard, Mallow, Nettle, Oxeye daisy, Water pepper, Wild turnip	60	300	Apply during active growth from full leaf to early flowering and when all risk of frost has passed. Retreatment of Californian thistle may be required.
Giant buttercup, Hemlock, Horehound, Inkweed, Woolly mullein, Gorse	60	300	Apply during active growth only when all risk of frost has passed. Add Boost™ Penetrant to improve wetting.

BROADCAST APPLICATION – PASTURE

Apply to heavy infestations only.

DO NOT apply more than 2L/ha once per season to the same target plant.

DO NOT apply by aircraft.

CARPET TYPE WEEDWIPER

For control of ragwort and Californian thistle, dilute 1 part **TORDON PASTUREBOSS** with 40 parts water (1:40). Ensure the wiper remains saturated while in use. Two passes in opposite directions are recommended. Californian thistle may require repeat treatment.

WEEDS	L/Ha	COMMENTS
Broadleaf dock Californian thistle Cape weed Giant buttercup Goats rue Hedge mustard Mallow Nettle Oxeye daisy Ragwort Thistles	2	Best results are achieved from applications: 1. to active growth prior to flowering 2. when all risk of frost has passed 3. prior to flowering (Californian thistle and ragwort) Retreatment of Californian thistle may be required. Add Boost Penetrant to hard to wet species including giant buttercup and foxtail.
LEGUMES SUCH AS CLOVERS AND LUCERNE WILL BE REMOVED FROM TREATED AREAS		

Registered pursuant to the ACVM Act 1997, No P8205.
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR1000379
See www.epa.govt.nz for approval controls.

Registered to:

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www.corteva.co.nz

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EMERGENCY RESPONSE

(All hours)
Ring from anywhere in New Zealand

**0800 844 455 or
Globally +64 6 751 2407**

**IN A TRANSPORT EMERGENCY
DIAL 111
FOR POLICE OR FIRE**

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