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Dow AgroSciences

TORDON™ BRUSHKILLER XT

Controls a range of brushweeds

Herbicide

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT:

Contains 100 g/litre picloram and 8 g/litre aminopyralid as amine salts; and 300 g/litre triclopyr as the butoxyethyl ester in the form of an emulsifiable concentrate. Also contains 367 g/litre diethylene glycol.

GROUP 03 HERBICIDE

WARNING - COMBUSTIBLE LIQUID

Tordon Bruhkiller XT Herbicide 300915

HARMFUL - Keep out of reach of children
ECOTOXIC



CONTENTS: 1L, 5L, 20L

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SPECIMEN LABEL

HAZARD CLASSIFICATION:

3.1D, 6.1D, 6.3B, 6.4A, 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.

RECORD KEEPING

Records of use, as described in the relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of Tordon™ Brushkiller XT 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.

FLAMMABILITY

COMBUSTIBLE LIQUID. Keep away from sources of ignition.

TOXICITY**WARNING**

May be harmful if swallowed, inhaled or absorbed through the skin. May irritate the eyes and skin. May cause allergic skin disorders. May cause organ damage from repeated high oral ingestion. Avoid contact with skin and eyes. 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.

ECOTOXICITY**DANGER**

VERY TOXIC TO AQUATIC PLANTS. DO NOT contaminate an aquatic environment with chemical or empty container. DO NOT spray over, or allow to drift over, an aquatic environment. DO NOT use this product on the bottoms of drains, ditches or irrigation channels.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Some plants may be damaged or killed from contact with this product. DO NOT allow drift outside the target area to occur. DO NOT use on the bottom of irrigation channels. Decontaminate equipment before use on sensitive plants (see Application Methods section).

HARMFUL TO TERRESTRIAL VERTEBRATES. Use only as directed on this label.

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 original container tightly closed and in a dry area, away from foodstuffs. Do not store or allow to come in contact with ignition sources, or Class 1, 2, 3.2, 4 or 5 substances.

Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409). Stores containing 100L or more of Tordon Brushkiller XT 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 applying the spray wear eye protection, cotton overalls buttoned to the neck and wrists, chemical resistant gloves (e.g. PVC, nitrile or neoprene), washable hat and chemical resistant boots.

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.

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 this product only by using according to the label, at an approved landfill, or via Agrecovery (www.agrecovery.co.nz or 0800 AGRECOVERY (247 326) for information about the type and quantity of chemical for disposal). Do not burn the product.

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.

SPILLS

Extinguish all sources of ignition. Do not touch or walk through spilled material. Wear a face shield or goggles, overalls buttoned to neck and wrist, chemical resistant gloves and boots. Stop leak when safe to do so. Dike area and prevent entry into waterways, and drains or coming into contact with HSNO Class 1, 2, 3.2, 4 or 5 substances. **Small spills/leaks:** Absorb with proprietary absorbent suitable for chemical spills or inert material such as sand, soil or sawdust. Collect spilled product and place in sealable container for disposal. Spill residues may be cleaned using water and detergent. Contain and absorb wash water for disposal. Absorb and collect washings and place in the same sealable container for disposal. Seek advice from the SDS, product label or Dow AgroSciences regarding disposal. **Large spills/leaks:** Dike the area of large spills and report them to Dow AgroSciences Emergency Services at 0800 844 455.

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. If irritation persists see a doctor.

TRANSPORT

Do not carry this product on a passenger service vehicle.

SAFETY DATA SHEET

A Safety Data Sheet for Tordon Brushkiller XT is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.co.nz.

RESISTANCE MANAGEMENT

GROUP	O3	HERBICIDE
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Tordon Brushkiller XT 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.

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.

Registered pursuant to the ACVM Act 1997, No P7545.

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

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR007630

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

	Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS TRICLOPYR, PICLORAM, AMINOPYRALID). Marine Pollutant	
	UN Number:	3082	
	Class:	9	
	Packing Group:	III	
	HAZCHEM	2X	

Registered to: Dow AgroSciences (NZ) Ltd 89 Paritutu Road Private Bag 2017 New Plymouth 4342 Telephone 0800 803 939 www.dowagrosciences.co.nz	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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DOM:

Batch No.

Barcode

APPLICATION METHODS

TORDON Brushkiller XT can be applied using conventional ground or aircraft spraying equipment. Flush equipment thoroughly with clean water after use. **Decontaminate before using on plants that are sensitive to Tordon Brushkiller XT.** Crops susceptible to Tordon Brushkiller XT include, but are not limited to: beans, clovers, lucerne, lupins, peas and other legumes; flowers, fruit trees, hops, ornamentals, shade trees, potatoes, sunflowers, tomatoes, vegetables and vines.

Cleaning spray equipment:

Rinsing

- After using Tordon Brushkiller XT, empty the spray unit completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain the spray unit, and clean any filters in the tank, pump, lines, hoses and nozzles.
- After cleaning the spray unit as above, quarter fill with clean water and circulate through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on waste land away from desirable plants and water sources.

Decontamination

Before applying to sensitive crops with equipment that has been used to apply Tordon Brushkiller XT:

- Wash the tank and rinse the system as above. Then 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 to drain.

Using the spray equipment:

The following application situations must use spray equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Hand gun:

Apply the recommended mix to give full coverage of leaves and stems and from all directions. Use a No. 6 – 8 tip. Do not use gun spraying pressures less than 1000 kPa or greater than 2000 kPa.

Aerial application:

Use 200-400 litres water per hectare applied with at least a coarse quality spray as defined by

BCPC or ASAE (S572). Apply with a calibrated aircraft using half overlap-opposite pass technique. Aerial applications may require some follow up ground treatment. To minimise off-target drift apply when wind speed is NOT less than 3 or more than 20 kilometres per hour as measured at the application site and do not apply during surface temperature inversion conditions at the application site.

Knapsack:

Apply the recommended mix to give full coverage of leaves and stems.

Mistblower:

Use only where the bush size enables good coverage of the entire bush. Use a marker dye, to check spray coverage.

MIXING:

Half fill the spray tank and add the required amount of Tordon Brushkiller XT. Add the remainder of the water, with the agitator running. If required add the Boost™ Penetrant. Maintain agitation during spraying. Only mix sufficient spray solution for immediate use and avoid storing.

COMPATIBILITY:

Tordon Brushkiller XT is compatible with most commonly used herbicides.

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.

ANIMAL SAFETY/PRECAUTION

Grazing pasture immediately after application of Tordon Brushkiller XT is safe for animals. However, poisonous plants (including but not limited to inkweed, ragwort, and tutu) 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: For animals grazing pasture after 7 days from application of Tordon Brushkiller XT, a nil meat WHP applies. Animals grazing Tordon Brushkiller XT treated pasture within 7 days of application must be grazed for at least 4 days on pasture not treated within the last 7 days.

Cutting for animal feed: Do not cut for animal feed for 7 days after application.

Cattle milk: 3 days

PROTECTION OF THE ENVIRONMENT

DO NOT use on turf.

DO NOT allow the spray drift onto susceptible crops, see re-establishment of pastures and planting of crops section.

Use under meteorological conditions or 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 hay or other plant material harvested within 3 weeks of treatment with Tordon Brushkiller XT for making compost or mulching susceptible crops.

DO NOT use plant material that has been treated with Tordon Brushkiller XT within the previous 3 weeks to make mushroom substrate.

DO NOT use manure, paunch grass or dairy effluent from animals grazing areas treated with Tordon Brushkiller XT within the previous 3 weeks for making compost unless the animals have been placed for 4 days on a paddock that has not been treated with Tordon Brushkiller XT within the previous 3 weeks.

CLOVER RE-ESTABLISHMENT:

Picloram and aminopyralid, active ingredients in Tordon Brushkiller XT, are injurious to legumes and residues in the soil may prevent early re-establishment after treatment. The period that residues persist in the soil will vary according to site conditions such as climate, soil and the rate used. It is suggested that small areas should be oversown with clover 1-2 months prior to the planned sowing time to check for possible harmful residues.

DIRECTIONS FOR USE:

Tordon Brushkiller XT - Controls a range of woody and semi-woody weeds.

USE RATES:

WEEDS	GUN ml/100 litres WATER	AERIAL litre/ha	WEEDS	GUN ml/100 litres WATER	AERIAL litre/ha
Gorse	250	10	Lupin	100	2
Gorse (North Canterbury)	300	10	Sweet Brier	300-500	12
Broom	250	10	Matagouri	500	12
Tutus	300	10	Blackberry	500-650	10
			Woolly Nightshade	250	10

KNAPSACK:

Add 6 ml Tordon Brushkiller XT per litre water.

MISTBLOWER:

Use 100ml/10 litre tank. For ULV attachments use 500ml/10 litre tank, using the No. 3 or 4 hole.

WEED COMMENTS**GORSE:**

Ground application: During the active growth period from spring until early summer apply Tordon Brushkiller XT at 250ml/100 litres. During periods of slow growth or when gorse is dormant or stressed e.g. in hot, dry, dusty, frosty or salty conditions or when plants have been slashed or grazed, the addition of Boost Penetrant to the spraymix at 100ml/100 litres is recommended. In North Canterbury use Tordon Brushkiller XT at 300ml/100L plus Boost™ Penetrant at 100ml/100 litres spraymix. Follow up treatment may be necessary to obtain complete control.

Aerial application: Apply during active growth. To minimise variability add Boost Penetrant at 2 L/Ha to the spraymix. Hard grazed or scattered bushes should not be treated from the air. Best results are achieved from treating bushes less than 3m high and with stems less than 3cm in diameter.

BROOM:

Spray broom from spring until early summer while leaf is present. Hard grazed or scattered bushes should not be treated from the air. Best results are achieved from treating bushes less than 3m high

and with stems less than 3cm in diameter.

BLACKBERRY:

Blackberry should be treated during summer and autumn when bushes are in active growth. Use high rates for control of hard grazed and lower growing types found on the East Coast of the North Island and Northland. Some Northland areas may contain difficult-to-kill species. Variable results may occur if these species are present.

MATAGOURI:

Best results are achieved if good moist spring growing conditions occur prior to spraying. Control may be reduced under dry conditions or if lichen is growing on the bark. Spray when in full flower usually November to December.

SPECIMEN LABEL

SWEET BRIER:

For best results apply from expanded leaf emergence to green hip, usually from November to early January. For ground application thorough wetting of crown is recommended. Results from aerial application are enhanced by treating bushes less than 2m high.

RAGWORT AND OTHER WEEDS:

When applying Tordon Brushkiller XT at the ground application rate for gorse, a wide range of broadleaf weeds such as ragwort, fennel, nettle, inkweed and thistles will also be controlled.

TUTUS:

Apply to fresh regrowth and after frond expansion.

BARBERRY, OLD MAN'S BEARD, HAWTHORN, WOOLLY NIGHTSHADE, WATTLE, WILLOW AND OTHER BRUSHWEEDS - STUMP SWABBING:

Mix 1 part Tordon Brushkiller XT with 20 parts water or diesel. Using a paint brush or knapsack, liberally coat the freshly cut surface and stems down to ground level. If using diesel thorough agitation must be maintained.

WOOLLY NIGHTSHADE:

Ground and aerial application: Apply during the active growth period. The addition of Boost Penetrant is recommended to ensure good coverage.

Stem cut & inject: Make two shallow, hatchet cuts into opposite sides of the trunk at waist height or below the lowest branch. Using a syringe gun or similar, inject 1.5ml Tordon Brushkiller XT into each cut. If stem diameter is greater than 15cm make four cuts at equal distances around stem. Best results will occur when trees are in active growth.

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