

**HARMFUL – Keep out of reach of children
ECOTOXIC**



Starane™ Xtra

HERBICIDE

ACTIVE INGREDIENT: Contains 333 g/litre fluroxypyr as the methylheptyl ester in the form of an emulsifiable concentrate.

GROUP 03 HERBICIDE

Controls broadleaf weeds in cereals and apples

READ THIS LABEL COMPLETELY BEFORE MIXING OR APPLYING

Dow AgroSciences (NZ) Ltd
89 Paritutu Road, Private Bag 2017, New Plymouth 4342
www.corteva.co.nz
Telephone 0800 803 939

HAZARD CLASSIFICATION: 6.5B, 9.1B, 9.2A

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 relevant HSNO Act regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L of **STARANE XTRA HERBICIDE** 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.

TOXICITY

THIS SUBSTANCE MAY CAUSE AN ALLERGIC SKIN REACTION. Avoid contact with the skin.

ECOTOXICITY

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 to occur.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Certain plants may be damaged or killed from contact with this product. **DO NOT** allow drift outside the target area to occur.

HANDLING PRECAUTIONS

EQUIPMENT

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

STORAGE

Store in original container tightly closed and in a locked, dry, cool, well ventilated area, away from sources of ignition and foodstuffs. Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Stores containing more than 100L of **STARANE XTRA HERBICIDE** (or substances of the same hazard class) require signage and more than 1000L require containment. See the Hazardous Substances Emergency Management Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Contact your supplier for further information about the use of this product if it is older than this.

PERSONAL PROTECTION

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

SPILLAGE

DO NOT touch or walk through spilled material. Wear personal protective equipment as recommended above. Stop leak if safe to do so. Dike area and prevent entry into waterways and drains. **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 into sealable container for disposal. Spill residues may be cleaned using water and detergent.

Contain and absorb wash water. Absorb and collect washings and place in the same sealable container for disposal at an approved landfill. Seek advice from the SDS, product label or Corteva Agriscience regarding disposal. **Large spills/leaks:** Report large spills to Corteva Agriscience Emergency Services at 0800 844 455.

DISPOSAL

Triple rinse empty containers 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, 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. Wash affected areas with soap and water.

TRANSPORT

DO NOT carry more than 100mL of this product on a passenger service vehicle.

SAFETY DATA SHEET

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

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.

DIRECTIONS FOR USE

APPLICATION METHOD

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

Cleaning the spray equipment:

Rinsing

- After using **STARANE XTRA HERBICIDE**, 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 **STARANE XTRA HERBICIDE**:

- 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.

Boom spraying: Use 100 - 200 litres of water per hectare in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409) as a medium quality spray. For late applications use 300 litres of water per hectare as medium quality spray to obtain more complete coverage.

MIXING:

Half fill the spray tank with water and add the required quantity of **STARANE XTRA HERBICIDE**. When tank mixing with other herbicides, add the **STARANE XTRA HERBICIDE** last.

RAINFALL:

DO NOT apply if rain is likely to occur within two hours of application.

COMPATIBILITY

STARANE XTRA HERBICIDE is compatible with Glyphomax™ XRT, Maestro™ Herbicide, MCPA Herbicide, Versatill™ Herbicide, and most commonly used fungicides and insecticides.

WITHHOLDING PERIODS:

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.

Cereals: **DO NOT** graze failed crops for seven days after application.

Apples: **DO NOT** harvest within 28 days of application.

RESISTANCE MANAGEMENT

GROUP 03 HERBICIDE

STARANE XTRA HERBICIDE 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.

CEREALS

STARANE XTRA HERBICIDE is a selective herbicide for the control of many broadleaf weeds in wheat, barley and oats. Apply from the 3 leaf stage of the crop to booting (flag leaf) growth stage. **DO NOT** spray cereals undersown with clover or lucerne.

WEEDS	RATE mL/Ha	COMMENTS
Black nightshade Docks (seedling)	450	Weeds should be at the 2 - 6 leaf stage.
Field chickweed	600	Apply before flowering.
Cleavers	750	Apply at the 2 - 4 whorl stage. Application may also be made to cleavers at advanced growth stages to achieve knockdown.
Wireweed Cornbind Field madder	750	Apply to wireweed and cornbind at the 2 - 6 leaf growth stage. Apply to field madder before flowering.
Volunteer potato	1200	Suppression only. Apply when volunteer potatoes are 10 - 20 cm in height. Level of control will vary according to potato vigour, variety and crop competition.

The addition of MCPA Herbicide or Maestro Herbicide to **STARANE XTRA HERBICIDE** will broaden the weed spectrum for control of fathen, hedge mustard, wild turnip, shepherd's purse and nettle, and will improve the control of wireweed. Refer to the MCPA Herbicide and Maestro Herbicide labels for application timing.

APPLES

STARANE XTRA HERBICIDE broadens the activity of glyphosate against certain broadleaf weeds in orchards. Refer to table below for use directions. Applications should be directed to the ground ensuring contact is not made with any green bark, suckers, foliage or fruit of the tree. **DO NOT** apply to trees less than 3 years old. Refer to glyphosate label for use rates for weeds not listed below, general recommendations and precautions relating to that product.

WEEDS	RATE mL/Ha	COMMENTS
White clover	900	Add Boost™ Penetrant at 100mls/100 litres spraymix.
Docks	900	Apply STARANE XTRA HERBICIDE in mixture with 2.0 litres/Ha Glyphomax 360 Herbicide and Boost Penetrant at 100 mls/100 litres spraymix.
Large flowered mallow Creeping mallow	1200	Apply STARANE XTRA HERBICIDE in mixture with 3.0 litres/Ha. Glyphomax 360 Herbicide and Boost Penetrant at 100 mls/100 litres spraymix.

* Adjust rates for different glyphosate formulation concentrations.

Registered pursuant to the ACVM Act 1997, No P7719.
See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval No HSR07040
See www.epa.govt.nz for approval controls.

Registered to:

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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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