

**orion** AGRISCIENCE



**COMBUSTIBLE LIQUID | HARMFUL | ECOTOXIC**  
KEEP OUT OF REACH OF CHILDREN

# Tyrant<sup>TM</sup>

200EC

## HERBICIDE

Controls broadleaf weeds in CEREALS  
and APPLES

**Active Ingredient:**

200 g/litre fluroxypyr as the methylheptyl ester in the form of an emulsifiable concentrate.



9 421004 53400 0

**10 Litres**

## PLEASE READ THE LABEL COMPLETELY BEFORE USE

**HAZARD CLASSIFICATIONS: 3.1D, 6.1E, 6.3B, 6.4A, 9.1A, 9.2A**

**WARNING: FLAMMABLE, TOXIC, ECOTOXIC**

Combustible liquid. May be harmful if swallowed, inhaled or absorbed through the skin. May cause eye and mild skin irritation. Very toxic to aquatic organisms. Very toxic to some plant species (selective herbicide).

### PRECAUTIONS

**APPROVED HANDLER:** This product must be under the control of an approved handler during use.

**STORAGE:** Keep out of reach of children. Do not store near heat, flame or other source of ignition. Store in the original, tightly closed container, in a cool, well ventilated and secure area. Storage of certain quantities of this product trigger specific storage requirements (Refer to Safety Note). 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 product that is older than this.

**PERSONAL PROTECTION:** Avoid contact with eyes and skin. Avoid inhalation of vapour or spray mist. When mixing or applying, wear overalls, boots, gloves, head covering for overhead exposure, and eye protection. A respirator (organic vapour and particulate matter) is required where spray mist or vapour could be inhaled. Clean protective clothing daily after work. Do not eat, drink or smoke while using. Remove protective clothing and wash hands and face thoroughly before meals and after work.

**USE:** Avoid handling, mixing or use of the undiluted product or container near heat, flame or other source of ignition. Apply with well maintained and calibrated spray equipment.

**DISPOSAL:** Dispose of this product only by using in accordance with this label, or at a suitable landfill. Do not burn. Triple rinse container and add rinsate to the spray tank. Dispose of container to a suitable landfill or agricultural recycling scheme. Do not burn. Do not use container for any other purpose.

**ENVIRONMENTAL:** Use this product carefully. Do not contaminate aquatic environments with product, spray drift or empty container. Do not allow spray drift outside the target area to occur.

### First Aid

If swallowed do not induce vomiting. If splashed in eyes, wash out immediately with running water for several minutes. If skin or hair contact occurs, remove contaminated clothing and wash with soap and running water. If inhaled, immediately move to fresh air and rest. Maintain half upright position if breathing is difficult. Call the National Poisons Centre **0800 POISON (0800 764 766)** (24 hrs) or a doctor immediately for advice.

### Emergency Response

In a transport emergency call **111, Police or Fire Brigade**. In a fire, evacuate and call **111 Fire Brigade**. For specialist advice in an emergency only, call **0800 CHEMCALL (0800 243 6225)** (24 hrs).

### Spillage

Extinguish any ignition sources. Exclude non-essential people from the area. Wear protective clothing and prevent material from entering waterways. Absorb spill with inert material such as soil, sand, etc, and place in a waste container. Wash area with water and detergent, and absorb with further inert material. Dispose of safely to a suitable landfill.

### Safety Data Sheet

Additional information is provided in the safety data sheet. Freephone **0800 ORIONAS (0800 674 6627)** or visit [www.orionagriscience.co.nz](http://www.orionagriscience.co.nz).

### WARRANTY

This formulation is warranted to contain the specified active ingredient within accepted analytical tolerance when packed. The user bears the risk for damage resulting from factors beyond the manufacturer's control. The manufacturer declines all liability for damage resulting from improper storage or use of the product.

Registered pursuant to the ACVM Act 1997, No. P9219

See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to the HSN0 Act 1996, No. HSR100997

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

<sup>™</sup>TYRANT is a Trade Mark of Orion AgriScience Limited.

**Registrant:** Orion AgriScience Ltd,  
Unit 1, 15 Sir Gil Simpson Drive,  
Harewood, Christchurch 8053.  
[www.orionagriscience.co.nz](http://www.orionagriscience.co.nz).

Batch No:

Date of manufacture:

TYRANT 200EC

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### DIRECTIONS FOR USE

**It is an offence to use this product on animals**

**CERIALS:** Tyrant 200EC 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 L / ha	CRITICAL COMMENTS
Black nightshade Docks (seedling)	0.75	Weeds should be at the 2 - 6 leaf stage.
Field chickweed	1	Apply before flowering.
Cleavers	1.25	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	1.25	<b>Wireweed and cornbind:</b> Apply at the 2 - 6 leaf growth stage. <b>Field madder:</b> Apply to field madder before flowering.
Volunteer potato	2	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 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 label for application timing.

**APPLES:** Tyrant 200EC 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 L / ha	CRITICAL COMMENTS
White clover	1.5	Add Penetrant at 100 mL / 100 L spraymix.
Docks	1.5	Apply in mixture with 2 L / ha glyphosate 360 and penetrant at 100 mL / 100 L spraymix.
Large flowered mallow Creeping mallow	2	Apply in mixture with 3 L / ha glyphosate 360 and penetrant at 100 mL / 100 L spraymix.

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## APPLICATION METHODS

Tyrant 200EC can be applied using conventional ground spraying equipment.

**Boom spraying:** Use 100 - 200 L / ha water as a medium quality spray. For late applications use 300 L / ha water to obtain more complete coverage.

## MIXING

Half fill the spray tank with water and add the required quantity of the product. When tank mixing with other herbicides, add Tyrant 200EC last.

## COMPATIBILITY

Tyrant 200EC is compatible with glyphosate, MCPA, and most commonly used fungicides and insecticides.

## SPRAY EQUIPMENT CLEANING AND DECONTAMINATION

Flush equipment thoroughly with clean water after use. Decontaminate before using on plants that are sensitive to the product. Crops susceptible to Tyrant 200EC 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 Tyrant 200EC 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 Tyrant 200EC:

Wash the tank and rinse the system as above, then quarter fill the tank and add an 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.

#### RAINFALL

Do not spray if rainfall is expected within 2 hours of spraying.

## WITHHOLDING PERIOD

**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.**

Cereals: Do not graze failed crops for 7 days after application.

Apples: Do not harvest within 28 days of application.

## RESISTANCE MANAGEMENT

GROUP 03 HERBICIDE

Tyrant 200EC contains fluroxypyr, which belongs to the pyridine carboxylic acid chemical family. Some naturally occurring weeds may become resistant when excessive use of the same herbicide occurs. To prevent or delay the development of resistance, use in tank mixes and/or rotate use with herbicides with a different mode of action. Consult <http://resistance.nzpps.org/index.php> for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.