

NET 200 g

ECOTOXIC

# Granstar® herbicide

For control of Broadleaf weeds in  
Wheat, Barley and Oats, and for use  
in Conservation tillage

Active Ingredient: Contains 750 g/kg  
Tribenuron-methyl in the form of a  
water dispersible granule

GROUP **2** HERBICIDE

READ LABEL AND LEAFLET BEFORE  
MIXING AND APPLICATION



Registered pursuant to the ACVM Act 1997 No. P3837  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions  
Approved pursuant to the HSNO Act 1996 Code HSR000234

#### HAZARD CLASSIFICATION



6.3B, 6.4A, 6.5B, 9.1A, 9.2A

#### APPROVED HANDLER

This product must be under the control of an approved handler during use.

Use of this product in any manner contrary to this label may be an offence under the HSNO Act.

**HARMFUL** - May cause mild skin irritation and sensitisation from prolonged skin contact. May cause eye irritation.

**ECOTOXIC** - Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. **DO NOT** allow spray drift outside the target area.

#### PRECAUTIONS

Keep out of reach of children.

Avoid skin contact. Avoid breathing dust or spray mist. **DO NOT** eat, drink or smoke while using. When mixing or applying wear waterproof gloves, hat, overalls and footwear. Wash hands and face before meals and after work. Store in original container, tightly closed and under lock and key. **DO NOT** store with Class 1, 2, 3.2, 4 or 5 substances or feed, seeds or foodstuffs. Stores containing more than 100 kg of this product require secondary containment and are subject to signage. 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 any product that is older than this.

#### DISPOSAL

Container disposal: Ensure packet is empty, bury in landfill. Dispose of this product only by using according to this label. Always follow local authority requirements.

#### FIRST AID

If swallowed **DO NOT** induce vomiting. For advice, contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if feeling unwell. If spilt on skin, remove contaminated clothing and wash affected areas of skin. **DO NOT** SCRUB THE SKIN. If concentrate is splashed in eyes, flush with running water for at least 15 minutes. Take to hospital without delay. If inhaled, remove to fresh air. Take to hospital without delay.

#### SPILLAGE

Wear appropriate protective clothing. Shovel or sweep up and dispose of waste safely in an approved landfill. Never return to the container for reuse. **DO NOT** flush to surface water or sewer system.



## GENERAL INFORMATION

Granstar® herbicide is a dry flowable granule to be mixed in water and applied as a spray for selective post-emergence control of weeds in Wheat, Barley and Oats. It is non-corrosive to equipment, non-flammable and non-volatile.

Best results are obtained when Granstar® herbicide is applied to young, actively growing weeds. Granstar® herbicide stops growth of susceptible weeds. However, typical symptoms (discolouration) of dying weeds may not be noticeable for 1 - 3 weeks after application. Warm moist conditions following treatment promote the activity of Granstar® herbicide while cold, dry conditions delay the activity of Granstar® herbicide.

**DO NOT** apply Granstar® herbicide to crops that are stressed by severe weather conditions such as drought, frost, water saturated soil, disease or insect damage as crop injury may result. Severe winter stress, drought, disease or insect damage following application may also result in crop injury.

**BEWARE** - Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

## IMPORTANT

Injury to or loss of desirable trees or other plants may result from failure to observe the following. **DO NOT** apply or drain or flush equipment on or near desirable trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. **DO NOT** use on lawns, walks, driveways, tennis courts or similar areas. Application to drains and irrigation channels must only be made when these waterways are dry and at least two months is allowed to elapse before the channels are used for carrying water. Prevent drift of granules or spray to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds.

## DIRECTIONS FOR USE

### MIXING INSTRUCTIONS

Using the graduated measuring cylinder provided, measure the correct amount of Granstar® herbicide required for the area to be sprayed and add to the required volume of water. Continuous agitation is required to keep the product in suspension. Use Granstar® herbicide spray mixtures within 24 hours of preparation, as product degradation may occur.

### SURFACTANT

Always add a non-ionic surfactant at the manufacturer's recommendations unless mixing with another product which contains surfactant.

### SPRAY VOLUMES

Use a well maintained, accurately calibrated sprayer applying a minimum of 60 litres per hectare. Avoid overlapping and shut off spray booms while starting, slowing or stopping, or injury to the crop may result.

### RATES OF APPLICATION - WHEAT, BARLEY, OATS

Apply 15 grams Granstar® herbicide per hectare plus surfactant at any time after the crop is in the two leaf stage, but before the 'boot' stage. For best results apply to small actively growing weeds (less than 5 cm tall or across) before crop canopy closes in. Where treatment is delayed or where weeds are not actively growing due to adverse conditions, weeds may only be stunted or suppressed.

The following weeds are controlled by Granstar® herbicide; Californian thistle<sup>#</sup>, Scotch thistle, Wild turnip, Chickweed, Shepherd's purse, Fathen, Spurrey, Scarlet pimpernel, Willow weed.

<sup>#</sup> Delay application until after the majority of thistles have emerged and are at the rosette stage (10 - 15 cm tall). Thistles which emerge after spraying will not be controlled.

Apply 25 grams per hectare plus surfactant to control the above weeds and in addition Redroot, Sheep's sorrel, Twin cress and Wire weed.



Tank mixtures - Barley only

Granstar® herbicide at 15 g/ha may be tank mixed with Cougar\* or Combine\*. Refer to the specific product label for rates and recommendations.

#### **Weeds not controlled**

Cleavers, Speedwells, Wild oats. If these weeds are a problem add a herbicide registered for the control of these species. **DO NOT** spray Granstar® on cereals undersown with Lucerne or White clover.

#### **CONSERVATION TILLAGE**

(Brassicas, cereals, maize, new pastures, peas, potatoes, squash). For control of certain broadleaf weeds including clovers, sheep's sorrel, yarrow and ragwort, use Granstar® herbicide at 40 g per hectare in combination with glyphosate (36% active ingredient) at label rates plus Input® before the crop is sown. **DO NOT** sow crops within 14 days of applying Granstar® herbicide. **DO NOT** sow brassica species into Granstar® treated areas if soil pH exceeds 6.5. **DO NOT** apply Granstar® within 2 months after a lime application.

**Note:** pH is a measure of acidity. A pH value below 7 indicates an acid soil, a pH value above 7 indicates an alkaline soil.

**Caution:** Ragwort plants may become more palatable following spraying and stock should be removed until the treated plants brownout.

#### **WITHHOLDING PERIOD**

A withholding period for grazing is not required when used as directed. It is recommended however, that grazing or cultivation of treated areas be delayed 3 days as part of good agricultural practice.

**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.**

#### **COMPATIBILITY**

Experience so far suggests that Granstar® herbicide is compatible with commonly used cereal herbicides, insecticides and fungicides.

#### **SPRAYER CLEANUP**

To avoid subsequent injury to crops after spraying thoroughly remove all traces of Granstar® herbicide from spray equipment as follows:

1. Drain tank, then flush tank, boom and hoses with clean water for a minimum of 10 minutes.
2. Fill the tank with clean water and add 1 litre chlorine bleach (containing 3% solution sodium hypochlorite) per 100 litres of water. Flush through with agitation, then drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of chlorine bleach, rinse the tank thoroughly with clean water and flush through hoses and boom.

#### **RESISTANT WEEDS WARNING**

Granstar® herbicide is a member of the sulfonyleurea group of herbicides. Naturally occurring biotypes resistant to Granstar® and other sulfonyleurea herbicides are known to exist. These resistant weeds will not be controlled by Granstar® herbicide or other sulfonyleurea herbicides.

To prevent or delay the development of resistant weeds use Granstar® herbicide in tank mixes (if appropriate) and/or rotations with herbicides having different modes of action effective on the same weed species.

Since the occurrence of resistant weeds is difficult to detect prior to use, FMC accepts no liability for any losses that may result from the failure of Granstar® herbicide to control resistant weeds.

#### **RECORD KEEPING**

Records of use, as described in NZS 8409 - Management of Agrichemicals must be kept.



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## NOTICE TO BUYER

FMC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use of application, all of which are beyond the control of FMC. To the extent permitted at law FMC shall not be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.

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