

NET 120g to 5 kg

DANGER
ECOTOXIC

Trifix™ herbicide

For the control of broadleaf weeds in post
emergent fodder beet

Active Ingredient:
Contains 500 g/kg triflusulfuron-
methyl in the form of a water
dispersible granule

GROUP	2	HERBICIDE
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READ LABEL AND LEAFLET BEFORE
MIXING AND APPLICATION

Registered pursuant to the ACVM Act 1997 No. P009850
See www.foodsafety.govt.nz for registration conditions
Approved pursuant to the HSNO Act 1996 Code HSR101715

HAZARD CLASSIFICATION: Serious Eye Damage 1, Carcinogenicity 2, Hazardous to the Aquatic environment, acute and chronic 1. Hazardous to soil organisms.



DANGER – Causes serious eye damage. Suspected of causing cancer.

ECOTOXIC - Very toxic to aquatic plants long lasting effects. Very toxic to some plant species. Do not apply directly into or onto water. Take all reasonable steps to ensure that Trifix™ does not cause any significant adverse effects to the environment beyond the application area.

WARNING – very toxic to the aquatic environment via spray drift.

WARNING – very toxic to the aquatic environment via runoff.

WARNING – very toxic to some plant species. Certain plants may be damaged or killed from contact with this product.

HANDLING PRECAUTIONS

The person mixing or applying Trifix™ Herbicide must be a “Qualified Contractor”, or a “Qualified Person” or a person that has been provided guidance by a “Qualified Person” in respect of the application of the substance at the place; and is available at all times to provide assistance if necessary whilst the substance is being applied.

The spray mixture may also be prepared by a “Qualified Loader” or a person that has been provided guidance in respect of the handling of the substance at the place; and is available at all times to provide assistance if necessary whilst the substance is being handled.

PRECAUTIONS

DO NOT eat, drink or smoke while using. **DO NOT** breathe spray. When mixing or applying wear waterproof gloves, hat, overalls and footwear. Wash hands and face before meals and after work.. **DO NOT** handle until all safety precautions have been read and understood.

DO NOT apply directly into or onto water. Avoid contamination of any water supply with product or empty container. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. **DO NOT** apply directly into or onto water.

Wear eye/face protection.

STORAGE

Keep out of the reach of children. Store in original container tightly closed and in a locked, dry, cool, well ventilated area. **DO NOT** store for long periods of time in direct sunlight. 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 3 years from the date of manufacture. Contact your supplier for further information about the reuse of any product that is older than this.

DISPOSAL

Container disposal: Triple rinse empty container adding rinsate to the spray tank. Recycling rinsed container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Otherwise crush or puncture and bury in an approved landfill. **DO NOT** reuse container for any other purpose. Dispose of this product only by using according to this label. Always follow local Authority requirements.

FIRST AID

If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on the skin wash immediately. For advice contact the National Poisons Centre 0800 POISON (0800 764766) or a doctor if feeling unwell.

SPILLAGE

Wear appropriate protective clothing. Shovel or sweep up and dispose of waste safely in an approved landfill.

GENERAL INSTRUCTIONS

Trifix™ herbicide is a dry flowable granule to be mixed in water and applied as a spray for early post-emergent control of weeds in fodder beet. It is non-corrosive to equipment, non-flammable and non-volatile.

Best results are obtained when Trifix™ herbicide is applied to young, actively growing weeds. Tank mixed with a suitable herbicide partner, it controls a wide range of broadleaved weeds. Trifix™ herbicide stops growth of susceptible weeds. Weeds turn yellow 7-21 days after the post-emergent application, followed by death of the growing point. Conditions that promote the activity of Trifix™ herbicide are warm temperatures (15 – 25°C) and adequate soil moisture before, during and immediately after application. Treating large or stressed weeds may result in poor weed control. Delay application until stress passes and weeds begin to actively grow again. To obtain best results, avoid Trifix™ applications in any of the following conditions:

- injury from previous herbicide applications,
- cold, dry conditions,
- stress conditions due to frost, drought or water saturated soil, disease or insect damage.

A vigorously growing crop will aid weed control by shading and providing competition for weeds. In thin drill rows or where fodder beet plants are missing, additional flushes of weeds may occur.

GROUP	2	HERBICIDE
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Resistant Weeds Warning

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

To help prevent the development of resistant weeds, it is recommended Trifix™ herbicide not be applied alone (i.e. without an appropriate tank mix herbicide).

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 Trifix™ herbicide to control resistant weeds.

DIRECTIONS FOR USE

It is an offence to use this product on animals.

RESTRAINTS:

DO NOT irrigate to the point of water runoff from the treatment area for at least 72 hours after application of the substance.

Rainfall within 6 hours of application may reduce weed control. **DO NOT** apply Trifix™ if heavy rainfall, meaning rainfall greater than 100mm in a 24 hour period, is forecasted within 72 hours.

Trifix™ must be applied by ground-based methods only, with a nozzle set to provide MEDIUM or coarser droplets as defined by the ABASE standard of British Crop Production Council Guidance.

DO NOT apply when wind speeds are less than 3km/h or more than 20 km/h as measured at the application site.

DO NOT apply if there are surface temperature inversion conditions present at the application site at the time of application.

DO NOT apply within 10 m from bystanders and residents.

DO NOT apply within 30 metres of a downwind waterbody.

DO NOT apply within 15 metres of a down-slope waterbody.

DO NOT apply within 5 metres of a downwind area containing non-target plants, or within 20 metres of a downwind area containing threatened species plants.

Before application, users should check with the regional authority to establish if there are wetlands, indigenous vegetation habitat areas, or reserves which may contain threatened plants adjacent to the application area.

WITHHOLDING PERIODS

Trifix™ herbicide has a 56 day restriction on grazing or feeding of crop residue to livestock. Tank mix partners may have grazing or feeding restrictions therefore always refer to the label of the tank mix partner and follow the most restrictive label.

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

MIXING INSTRUCTIONS

Fill spray tank from ¼ to ½ full of water. Measure the correct amount of Trifix™ herbicide required for the area to be sprayed. Add Trifix™ herbicide directly to the spray tank with agitation engaged. Continuous agitation is required to keep the product in suspension. Use Trifix™ herbicide spray mixtures within 24 hours of preparation.

The mixing sequence recommended by formulation type is:

- Water soluble bags
- Dry flowable or water dispersible granules e.g. Trifix™
- Wettable powders
- Water based suspension concentrates
- Water soluble concentrates
- Oil based suspension concentrates including suspo-emulsions
- Emulsifiable concentrates
- Adjuvants and surfactants
- Soluble fertilisers

SURFACTANT

When applying Trifix™ in a tank-mix with another herbicide, always follow the surfactant recommendation of the other herbicide. When applying Trifix™ alone, always add a non-ionic surfactant (1000 g/L) at 0.1% v/v (i.e. 100 mL/100 litres water) such as Actiwett® or equivalent.

SPRAY VOLUMES

Use a well maintained, properly calibrated sprayer so as to achieve complete spray coverage of target weeds. Avoid overlapping and shut off spray booms while starting, slowing or stopping, or injury to the crop may result. A minimum water volume of 200 L/ha is recommended with a medium spray quality. Refer to tank mix partner labels for spray volume requirements.

CROP STAGE AT APPLICATION

Apply Trifix™ herbicide with an appropriate tank mix herbicide(s) to young actively growing weeds. Refer to tank mix partner label for recommendations on application timing relative to crop growth stage.

Trifix™ herbicide can be safely applied to fodder beet from the cotyledon stage through to crop canopy closure.

Chlorosis (yellowing) may be observed following an application of Trifix™ herbicide but effect is temporary.

Applications of Trifix™ herbicide to crops under stress (such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury or widely fluctuating temperatures) may result in crop injury. Before making applications of Trifix™ herbicide to crops previously under stress or injured from other pesticide applications, the crop needs to be fully recovered and growing vigorously.

Avoid applying Trifix™ herbicide if low (day max 10 / night min 7° C) or high temperatures (day max 30 / night min 20° C) are expected. Treatment should be applied early in the morning or in the evening (but avoid inversion conditions) so that a period of moderate temperatures follow the application.

RATES OF APPLICATION

Apply Trifix™ herbicide at 30 g/ha. For best results on the broadest spectrum of weeds, use two sequential applications of Trifix™ tank mixed with label rate combinations of Beatrix®, Betanal® Forte, Betanal® Quattro, Goltix® Flo and/or Nortron®. Take into consideration the label use requirements of the tank-mix partners. The maximum application rate in 30g Trifix/ha (equivalent to 15g triflurosulfuron methyl/ha). The maximum application frequency is two applications per year. The minimum interval period is seven days between applications. Trifix™ herbicide can be safely applied to fodder beet from the cotyledon stage through to crop canopy closure

Note- The growth stage of weeds at application is very important for satisfactory control by Trifix™ herbicide. For best results, apply to small, emerged, actively growing weeds between the cotyledon and two true leaf stage. Trifix™ has little to no soil activity.

The following weeds are controlled by Trifix™ herbicide + tank mixes of label rate combinations of Beatrix®, Betanal® Forte, Betanal® Quattro, Goltix® Flo and/or Nortron®.

Refer to tank-mix partner product labels when tank mixing prior to application for their up to date use guidelines.

If tank mixing with unlisted products, contact your local FMC representative for advice.

Weeds	Control / suppression
Mayweed (<i>Anthemis cotula</i>)	Control
Nettle, Stinging (<i>Urtica urens</i>)	Control
Shepherd's purse (<i>Capsella bursa-pastoris</i>)	Control
Wild turnip (<i>Brassica rapa</i>)	Control
Dock, Broadleaf (<i>Rumex obtusifolia</i>)	Supp seedling
Field pansy (<i>Viola arvensis</i>)	Supp
Kale (volunteer) (<i>Brassica oleracea ssp sabellica</i>)	Supp
Mallow, Small flowered (<i>Malva parviflora</i>)	Supp
Nightshade, Black (<i>Solanum nigrum</i>)	Supp
Nightshade, Hairy (<i>Solanum sarrachoides</i>)	Supp
Plantain (<i>Plantago</i> spp.)	Supp
Spurrey (<i>Spergula arvensis</i>)	Supp
Stagger weed (<i>Stachys arvensis</i>)	Supp
Velvetleaf (<i>Abutilon theophrasti</i>)	Supp
Willow weed (<i>Persicaria maculosa</i>)	Supp

Weeds	Control / suppression
Wireweed (<i>Polygonum aviculare</i>)	Supp

Supp = Suppressed weed

PLANTBACK / RE-CROPPING RECOMMENDATIONS

Failed crop –

Sow only spring wheat, spring barley or fodder beet within 1 month of the last application of Trifix™, provided this is in accordance with the recommendations of any partner product.

Crop rotation –

Wheat, barley, ryegrass, maize, forage brassicas and chicory may be sown 1 month after the last application of Trifix™.

White clovers may be sown 3 months after the last application of Trifix™.

For all other crops it is recommended to conduct a pot bioassay to ascertain crop sensitivity and safe plantback intervals to remaining triflurosulfuron-methyl residues in the soil.

When Trifix has been applied in a tank-mix, observe the plantback recommendations of other herbicides and follow the most restrictive label.

COMPATIBILITY

Trifix™ herbicide can be effectively tank mixed with various label rate combinations of Beatrix*, Betanal* Forte, Betanal* Quattro, Goltix* Flo and/or Nortron*. Note that Trifix™ has only been evaluated with Goltix* Flo at up to 1.5 L/ha, Beatrix* up to 4 L/ha and Betanal* Quattro up to 4 L/ha with acceptable compatibility and crop safety. Trifix™ has not been evaluated with higher label rates of these partner products and therefore compatibility and crop safety is unknown.

Since the formulations of products are always changing, or new products are introduced, it is advisable to test the physical compatibility of desired tank mixes. In a small vessel, add the recommended proportions of the tank mix products to water, mix thoroughly and allow to stand for 20 minutes. If the combination remains mixed or can be re-mixed readily, it is considered physically compatible. For advice on compatibilities not listed, contact an FMC representative.

The crop safety of all potential tank mixes on all fodder beet varieties has not been tested. Before applying any tank mixture not specifically recommended on this label, the safety to the target crop must be confirmed by applying the combination to a small area of the target crop.

SPRAYER CLEANUP

To avoid subsequent injury to crops other than fodder beet, immediately after spraying thoroughly remove all traces of Trifix™ herbicide from mixing and 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 L household ammonia (containing 3% active ingredient) per 100 L of water. Flush throughout with agitation for at least 15 minutes then drain.
3. Repeat step 2.
4. Nozzles and screens should be removed and cleaned separately. To remove traces of household ammonia, rinse the tank thoroughly with clean water and flush through hoses and boom.

It is an offence under the Pesticides Regulations to use this product in a manner that results in damage outside the treated property.

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. Prevent drift of dry powder or spray to desirable plants. Keep from contact with fertilizers, insecticides, fungicides and seeds.

Groundwater advisory: Metabolites of triflurosulfuron methyl have properties and characteristics associated with chemicals detected in groundwater. These chemicals may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Metabolites of the active ingredient are persistent and may carryover. Products containing triflurosulfuron methyl must not be used on the same area of land any more than 2 years in a row.

Users must follow the guidance on management of spray drift and groundwater contamination provided in Appendix H and J of the New Zealand Standard: Management of Agrichemicals NZ8409:2021.

RECORD KEEPING

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

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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