

# CAUTION

KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

# Trifolamine<sup>®</sup>

Selective Herbicide

**ACTIVE CONSTITUENT:**  
500g/L 2,4-DB present as the dimethylamine salt

**GROUP I HERBICIDE**

For the control of broadleaf weeds in seedling and established lucerne, medic and clover pastures, peanuts and cereal crops undersown with lucerne, medic or clover as specified in the Directions for Use table.

**IMPORTANT: READ THE ATTACHED LEAFLET BEFORE  
USING THIS PRODUCT**

**CONTENTS:** 5 Litres  
10 Litres  
20 Litres

Crop Care Australasia Pty Ltd, Unit 15/16 Metroplex Avenue Murarrie QLD 4172

® Trifolamine is a registered trademark of Nufarm Technologies USA Pty Ltd.

**GENERAL INSTRUCTIONS**

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

APVMA Approval No.: 50372/5L/0809  
 APVMA Approval No.: 50372/10L/0809  
 APVMA Approval No.: 50372/20L/0809

**STORAGE AND DISPOSAL**

Store in the closed, original container in a dry, cool well-ventilated area, away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should NOT be burnt.

In a Transport Emergency Dial <b>000</b> Police or Fire Brigade	SPECIALIST ADVICE IN EMERGENCY ONLY <b>1800 033 498</b> ALL HOURS – AUSTRALIA WIDE
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Batch No.:

Date of Manufacture:

DrumMuster logo

**SAFETY DIRECTIONS**

Poisonous if swallowed. May irritate the eyes and skin. This product is alkaline. Avoid contact with the eyes and skin. DO NOT inhale spray mist. When preparing spray, wear cotton overalls buttoned to the neck and wrist and washable hat, elbow-length PVC gloves and face shield. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and washable hat. If product on skin, immediately wash area with soap and water. After use and before eating, drinking or smoking, wash hands, arms, and face thoroughly with soap and water. After each day's use, wash gloves, face shield and contaminated clothing.

**FIRST AID**

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26.

**MATERIAL SAFETY DATA SHEET**

For further information refer to the Material Safety Data Sheet (MSDS), which can be obtained from your supplier or from the Crop Care website – [www.cropcare.com.au](http://www.cropcare.com.au)

**CONDITIONS OF SALE**

Crop Care Australasia Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatory imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crop Care Australasia Pty Ltd is limited to the replacement of the goods or (at the option of Crop Care Australasia Pty Ltd) the refund of the price paid and is conditional upon a claim being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crop Care Australasia Pty Ltd within thirty days of delivery.

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**READ COMPLETE DIRECTIONS FOR USE BEFORE USING THIS PRODUCT.**

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**DIRECTIONS FOR USE****RESTRAINTS:**

**DO NOT** apply if rain is expected within 4 hours.

**DO NOT** apply to crop or weeds under stress (not actively growing) due to periods of extreme cold or heat, moisture stress (water logged or drought affected), poor nutrition or previous herbicide treatments as increased levels of crop effect and/or reduced levels of weed control may result.

**DO NOT** use with hard water (>500 ppm) or water containing suspended matter.

Situation & Crop	Weeds Controlled	State	Rate/ha	Critical Comments
<b>Lucerne, - seedling and established</b>	<p>Amaranths <i>Amaranthus spp</i></p> <p><b>Burrs</b></p> <ul style="list-style-type: none"> <li>- Bathurst <i>Xanthium spinosum</i></li> <li>- Californian <i>Xanthium orientale</i></li> <li>- Noogoora <i>Xanthium strumarium</i></li> </ul> <p>Capeweed <i>Arctotheca calendula</i></p> <p>Charlock <i>Sinapis arvensis</i></p> <p>Dock (seedlings) <i>Rumex spp</i></p> <p>Evening primrose <i>Oenothera stricta</i></p> <p>Fat hen <i>Chenopodium album</i></p> <p>Fumitory spp <i>Fumaria spp</i></p> <p>Marshmallow <i>Malva parviflora</i></p> <p>Mexican poppy <i>Argemone spp</i></p> <p>Mustards <i>Sisymbrium spp</i></p> <p>Paterson's curse (Salvation Jane) <i>Echium plantagineum</i></p> <p>Plantains (Flat weeds) <i>Plantago spp</i></p> <p>Prickly lettuce <i>Lactuca serriola</i></p> <p>Shepherd's purse <i>Capsella bursa-pastoris</i></p> <p>Sowthistle <i>Sonchus oleraceus</i></p> <p>Spiny emex (Doublegee) <i>Emex australis</i></p> <p>Stinging nettle <i>Urtica urens</i></p> <p><b>Thistles</b></p> <ul style="list-style-type: none"> <li>- Saffron <i>Carthamus lanatus</i></li> <li>- Slender <i>Carduus pycnocephalus</i></li> <li>- Soldier <i>Picnomon acarna</i></li> <li>- Spear <i>Cirsium vulgare</i></li> <li>- Variegated <i>Silybum marianum</i></li> </ul> <p>Turnip weed <i>Rapistrum rugosum</i></p> <p>Wild (Mediterranean) turnip <i>Brassica tournefortii</i></p> <p>Wireweed <i>Polygonum aviculare</i></p>	All States	1 - 3.2 L	<p>Spray seedling weeds at the 2-6 leaf stage when seedling lucerne has between 1-8 trifoliolate leaves. Use lower end of rate range only for 2-4 leaf weeds under good growing conditions or for spray grazing. Small weeds which have been growing slowly under stress and are therefore physiologically older may not be well controlled. To avoid leaf distortion cut or graze established lucerne before spraying. Unless "Spray-Grazing" DO NOT cut, mow or graze for 4 weeks after application to maximise weed control.</p>

Situation & Crop	Weeds Controlled	State	Rate/ha	Critical Comments
<p><b>Clover and Medic Pastures,</b> - seedling and established</p> <p><b>Legumes showing acceptable tolerance</b></p> <p><b>Clover</b></p> <ul style="list-style-type: none"> <li>- Arrow leaf cvs Cefalu, Zulu II</li> <li>- Balansa cvs Bolta, Frontier, Paradana</li> <li>- Berseem cv Elite II</li> <li>- Persian cvs Nitro, Lazer, Leeton, Prolific, Shaftal</li> <li>- Rose cv Hykon</li> <li>- Red</li> <li>- Sub cvs Coolamon, Dalkeith, Gosse, Goulburn, Junee, Nungarin, Riverina, Seaton Park, Trikkala, Urana</li> <li>- White cv NuSiral etc</li> </ul> <p><b>Medic</b></p> <ul style="list-style-type: none"> <li>- Barrel cvs Caliph, Parabinga</li> <li>- Burr (polymorpha) cv Circle valley</li> <li>- Gama cvs Paraponto, Sapo</li> <li>- Murex cv Zodiac</li> <li>- Snail cvs Robinson, Sava</li> </ul> <p><b>Serradella</b></p> <ul style="list-style-type: none"> <li>- French cv Erica</li> </ul>	Refer to Weeds Controlled in Lucerne	All States	1 - 3.2 L	<p>Spray weeds at the 2-6 leaf stage when seedling medic and clover has between 1-8 trifoliate leaves. Use lower end of rate range only for 2-4 leaf weeds under good growing conditions or for spray grazing.</p> <p><b>Medic and Clover safety</b> Trifolamine may reduce initial vigour of most pasture legumes. Depending on inherent tolerance this may not result in reduced spring growth or seed yield. Tolerance can vary between seasons, legume type and cultivars. Because of the continuing introduction of new pasture legumes and cultivars caution is advised before applying Trifolamine to any new legume. Caution is especially advised if a treated crop is intended for seed production. Application beyond the 8 trifoliate leaf stage can increase the chance of reduced vigour and production. The use of higher rates can also increase vigour reduction. DO NOT exceed 3L/ha when spraying Robinson or Sava snail Medic. Do not exceed 2.5L/ha when spraying Sapo or Paraponto gama medic. DO NOT use on Berseem clover or on Red clover when it is being harvested for seed. Growth of Red clover may be retarded. Trifolamine is unsafe to use on Biserrula, Gland clover, Popany vetch and Orion, Santiago &amp; Serena medics due to the risk of excessive growth and seed. Trifolamine is unsafe to use on chicory and plantain.</p>
<p><b>Sown Pasture containing Clover or Medics</b></p>	Refer to Weeds Controlled in Lucerne		1 - 3.2 L	<p>Apply when clovers or medics are at the 1-8 trifoliate leaf stage. Grass seedlings should have 3 or more leaves.</p> <p><b>Medic and Clover safety</b> refer to the Critical Comments above.</p>
<p><b>Sub. clover pasture</b></p>	Doublegee <i>Emex australis</i>	WA only	1.2 L	<p>Spray when Doublegee has less than 14 leaves: best results are obtained when weed has 6-8 leaves. Clover should have 2-8 trifoliate leaves. DO NOT apply to pastures when one or more false breaks in the season occur, as uneven germination will result. Doublegee which emerge after spraying will not be controlled.</p> <p><b>Medic and Clover safety</b> refer to the Critical Comments above.</p>

Situation & Crop	Weeds Controlled	State	Rate/ha	Critical Comments
<b>Peanuts</b> - Runner types - Virginia types - Spanish types	<i>Ipomoea spp</i> including - Bellvine <i>Ipomoea plebeia</i> - Morning glory <i>Ipomoea purpurea</i> - Red convolvulus <i>Ipomoea hederifolia</i> Spiny <i>emex Emex australis</i> Thornapples <i>Datura spp</i>	Qld only	1.3 - 1.7 L	Apply between 1 and 12 weeks after seedlings have emerged. Use the lower end of the rate range for control of <i>Ipomoea spp</i> weeds only.
<b>Wheat, Barley, Oats, Triticale &amp; Cereal</b>  <b>Rye undersown with lucerne, medic or clover</b>	Refer to Weeds Controlled in Lucerne	All States	2.1 - 3.2 L	Spray weeds at the 2-6 leaf stage when seedling lucerne, medic and clover has between 1-8 trifoliate leaves. Use lower rate for 2-4 leaf weeds under good growing conditions. Apply to cereals after the "double ridge" stage which is normally through tillering after the main shoot has five leaves until booting (Z15-33). The time to "double ridge" stage will vary depending on growing conditions and variety.  <b>Medic and Clover safety</b> refer to the Critical Comments above.
<b>Spot spraying (All Situations)</b>	Refer to Weeds Controlled in Lucerne		200 - 400 mL / 100 L water	Use lower rate for easy to kill weeds eg Fat hen or Variegated thistle. For harder to kill weeds eg Capeweed, Marshmallow, use higher rate. Where difficult to wet, hairy or very thick weed populations are present, add Chemwet 1000 to the spray mixture at a rate of 65 mL / 100 L water.

**NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.**

**WITHHOLDING PERIOD: DO NOT GRAZE OR CUT FOR STOCK FEED FOR 7 DAYS AFTER APPLICATION**

## GENERAL INSTRUCTIONS

Before opening, carefully read Directions for Use, Precautionary Statements, Safety Directions and First Aid Instructions.

## MIXING

Mix with the required amount of water in the spray tank or mixing vessel. Apply using a low-volume boom spray fitted with fan jets, or by aircraft. Use mains or rain water for mixing. If not available, water with a hardness of less than 500 ppm (expressed as calcium carbonate equivalent) can be used but is not preferred. DO NOT tank mix Liase with Trifolamine in hard water for this may cause nozzle blockages.

## APPLICATION

Apply using boom or spot spray equipment. Application must be uniform. Nozzle type, output, speed and pressure should be adjusted to deliver a Coarse spray quality (ASAE S 527) in 110-220 litres per hectare by ground application and a minimum of 40 litres of water per hectare by aerial application.

## COMPATIBILITY

This product can be tank mixed with Flowable Diuron and Diuron 900 DF for use in lucerne only. This mix can be very damaging to clovers. Trifolamine is compatible with Broadstrike but not for control of Paterson's curse or doublegee – refer to Broadstrike label. The effectiveness of Dimethoate, Metasystox, Le Mat and Imidan may be reduced by alkaline hydrolysis if tank mixed with this product. For these situations the addition of Spraymate LI 700 is recommended which should be added to the tank first. The addition of Bonza Spray Adjuvant can improve control of weeds under some conditions, for example moisture stress but may also increase early effects on legumes. When tank mixing add the required amount of compatible product (and surfactant if recommended) when the spray tank is nearly full and while continuously agitating. If left overnight, agitate thoroughly before spraying.

## RESISTANT WEEDS WARNING

### GROUP I HERBICIDE

Trifolamine Selective Herbicide is a member of the Phenoxys group of herbicides. Trifolamine has the disruptors of plant cell growth mode of action. For weed resistance management Trifolamine is a Group I herbicide. Some naturally-occurring weed biotypes resistant to Trifolamine and other disruptors of plant cell growth herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Trifolamine or other disruptors of plant cell growth herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Crop Care Australasia Pty Ltd accepts no liability for any losses that may result from the failure of Trifolamine to control resistant weeds.

## PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

### Drift Warning:

DO NOT apply under meteorological conditions or from spraying equipment which could be expected to cause spray drift onto nearby susceptible plants, adjacent crops, crop lands or pastures. Avoid spray drift and vapour movement onto susceptible crops such as cotton, tobacco, tomatoes, vines, lupins, fruit trees and ornamentals.

## PROTECTION OF LIVESTOCK

**SPRAY-GRAZING WARNING:** Some pasture weeds can be controlled by Spray-Grazing a combination of herbicide treatment followed by heavy grazing 7-10 days later. Sprayed weeds become more palatable to stock and a higher intake of some weed species after spraying can cause stock deaths and other problems. Increased quantities of poisonous plants may be eaten by stock when the Spray-Grazing technique is being used. Take care if pastures are dominated by Caltrop, Capeweed, Cape Tulip, Paterson's curse (Salvation Jane) or Variegated Thistle. With Paterson's Curse preferably graze stock soon destined for slaughter and avoid extended periods of grazing. Avoid grazing with young or breeding stock. DO NOT graze horses or pigs in Paterson's curse (Salvation Jane) infested pasture.

## PROTECTION OF WILDLIFE, FISH CRUSTACEA AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with this product or used containers.

## STORAGE AND DISPOSAL

Store in the closed, original container in a dry, cool well-ventilated area, away from children, animals, food, feedstuffs, seed and fertilisers. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and products should NOT be burnt.

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