TREFLAN™ NF
Herbicide

For pre-emergent weed control in brassicas, lucerne, peas, beans and some other vegetable crops.

READ THE LABEL COMPLETELY BEFORE MIXING OR APPLYING

ACTIVE INGREDIENT: Contains 480g/L trifluralin in the form of an emulsifiable concentrate. Also contains 475 to 557 g/L hydrocarbon liquids.

GROUP K1 HERBICIDE

Keep out of reach of children
ECOTOXIC

Contents: 20 Litres

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HAZARD CLASSIFICATION
6.1D, 6.3B, 6.4A, 6.5B, 6.9A, 9.1A, 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

Do not apply onto or into water: including irrigation water, either directly or indirectly.

RECORD KEEPING
Records of use, as described in relevant HSNO regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409), must be kept if more than 3L 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
MAY CAUSE SKIN AND EYE IRRITATION. MAY CAUSE SENSITISATION FROM PROLONGED SKIN CONTACT. Avoid contact with eyes and skin. MAY CAUSE ORGAN DAMAGE FROM REPEATED ORAL EXPOSURE AT HIGH DOSES. 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.

ECOTOXICITY
VERY 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.

SELECTIVE HERBICIDE - VERY TOXIC TO SOME PLANT SPECIES. Some plants may be damaged or killed by contact with this product. Do not allow drift outside the target area to occur. Decontaminate equipment before use on sensitive plants (see Application Methods section).

HANDLING PRECAUTIONS

EQUIPMENT
Apply using accurately calibrated and maintained equipment in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).
Flush equipment thoroughly with clean water after use according to Cleaning Spray Equipment instructions below. Dispose of cleaning water according to the disposal instructions below.

STORAGE
Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area, well away from foodstuffs.

Storage must be generally in accordance with the New Zealand Standard for the Management of Agrichemicals (NZS8409).

Stores containing 100L or more of Treflan™ NF require bunding and are subject to signage. See the Hazardous Substances Emergency Management and Identification Regulations and the New Zealand Standard for the Management of Agrichemicals (NZS8409) for further information.

PERSONAL PROTECTION
When mixing or applying wear eye protection, chemical resistant gloves made of solvent resistant materials such as nitrile or supported PVA, chemical resistant boots, cotton overalls buttoned to the neck and wrist and a washable hat.
**SPILLS**

DO NOT touch or walk through spilled material. Wear facemask or goggles, chemical resistant overalls (buttoned to neck and wrist), gloves and boots. Stop leak if safe to do so. Dike area and prevent entry into waterways and drains. **Small spills/leaks:** Contain and absorb small spills with a 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 Dow AgroSciences regarding disposal. **Large spills/leaks:** Report large spills to Dow AgroSciences Emergency Services at 0800 844 455.

**DISPOSAL**

Triple rinse empty container 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 equipment cleaning water onto ground away from susceptible crops and plants.

Dispose of the 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

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.

**TRANSPORT**

Do not carry on a passenger service vehicle.

**SAFETY DATA SHEET**

A Safety Data Sheet is available from Dow AgroSciences on request. Call Customer Service Toll Free on 0800 803 939 or visit www.dowagrosciences.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](http://www.epa.govt.nz)) or the Ministry for Primary Industries (MPI) ([www.foodsafety.govt.nz](http://www.foodsafety.govt.nz)).

This product is warranted to contain the specified active ingredients within accepted analytical tolerance when packed.

Registered pursuant to the ACVM Act 1997, No P893. See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions.

Approved pursuant to HSNO Act 1996, EPA Approval Code HSR000576 See [www.epa.govt.nz](http://www.epa.govt.nz) for approval controls.

<table>
<thead>
<tr>
<th>Registered to:</th>
<th>EMERGENCY RESPONSE</th>
<th>IN A TRANSPORT EMERGENCY</th>
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<tbody>
<tr>
<td>Dow AgroSciences (NZ) Ltd</td>
<td>(All hours)</td>
<td>DIAL 111</td>
</tr>
<tr>
<td>89 Paritutu Road</td>
<td>Ring from anywhere in New Zealand</td>
<td>FOR POLICE OR FIRE</td>
</tr>
<tr>
<td>Private Bag 2017</td>
<td>0800 844 455 or</td>
<td></td>
</tr>
<tr>
<td>New Plymouth 4342</td>
<td>+64 6 751 2407</td>
<td></td>
</tr>
<tr>
<td>Telephone 0800 803 939</td>
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**Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Trifluralin, Naphthalene)

**Class:** 9

**UN Number:** 3082

**Packing Group:** III

**HAZCHEM:** 2X

**Date of Manufacture:** Batch No. Barcode
APPLICATION AND INCORPORATION:

Apply to a well-worked seedbed, free of trash or large clods using a correctly calibrated sprayer capable of giving uniform coverage. Add the required quantity of Treflan NF to clean water in a half filled spray tank. Top up with water and agitate thoroughly before spraying. A spray volume of 100-400 L/ha using medium to course quality spray as defined by ASABE (S572) or the BCPC is recommended. To minimise off target drift it is recommended to spray when wind speed is between 3 and 20 km/hr and avoid atmospheric inversion conditions. Avoid overlapping and switch off spray boom when turning or slowing to avoid over-application.

Incorporate into the top 5cm of soil immediately after application if possible and certainly within 8 hours. Workings in two different directions are required for thorough incorporation and suitable equipment includes heavy spike or weighted diamond harrows and dutch harrows, operated at a speed of 10-13 km/h. Chain harrows are not recommended.

Note:
- Do not use Treflan NF on peat type soils.
- Do not use in drip irrigation systems

Cleaning spray equipment:

Rinsing
After using Treflan NF:
- Empty the spray tank completely and drain the whole system. Thoroughly wash inside the unit using a pressure hose. Drain 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 the water through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.
- Discard rinse water on land already sprayed or on wasteland away from desirable plants and water sources.

Decontamination
Before using equipment with other products or on plants sensitive to Treflan NF:
- Wash the tank and rinse the system as above, then quarter fill the tank and add a standard alkali based laundry detergent at 500g (or mL)/100L and circulate through the system for at least 15 minutes. 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.

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.

Not required when used as directed.
Treflan NF is a dinitroaniline herbicide (Group K1). 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.

WEEDS CONTROLLED:

Susceptible species include:

<table>
<thead>
<tr>
<th>Barnyard grass</th>
<th>Summer grass</th>
<th>Annual poa</th>
<th>Wild Oats*</th>
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<tbody>
<tr>
<td>Fathen</td>
<td>Chickweed</td>
<td>Wireweed</td>
<td>Wild portulaca</td>
</tr>
<tr>
<td>Spurrey</td>
<td>Cornbind</td>
<td>Amaranth spp</td>
<td>Calandrinia</td>
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* Wild Oats germinating below the zone of incorporated Treflan NF may not be controlled.

Resistant weeds include:

<table>
<thead>
<tr>
<th>Mallows</th>
<th>Black nightshade</th>
<th>Shepherds purse</th>
<th>Wild turnip</th>
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<tbody>
<tr>
<td>Clovers</td>
<td>Storksbill</td>
<td>Fumitory</td>
<td>Twincess</td>
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DIRECTIONS FOR USE:

GENERAL INFORMATION:

Treflan NF is a pre-emergence residual herbicide that must be incorporated into the soil for optimum activity and is recommended for the control of certain grass and broad-leaved weeds in a range of agricultural and vegetable crops.
Crop Specific Recommendations

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate</th>
<th>Timing</th>
<th>Comments</th>
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</thead>
</table>
| Barley | **Sandy or Light soils:** 1.25-1.75 L/ha  
 **Clay, silt or loam soils:** 1.75L/ha | **Apply 14 days before planting unless conditions are favourable for rapid germination when planting may immediately follow incorporation.** | **Drill barley at least 5cm deep, below the treated soil layer, but do not seed too deeply in loose soils.** |
| Peas, Lucerne, Linseed, Oilseed Rape, French Beans | **Sandy or Light soils:** 1.25-1.75 L/ha  
 **Clay, silt or loam soils:** 1.75 – 2.0 L/ha | **As for barley.** | **Use the lower rates as listed above for early sown process crops.** |
| Chou Moellier, Kale, Rape, Swedes, Turnips, Carrots, Celery, Parsnips, Haricot Beans, Soybeans, Sunflowers, Transplant Broccoli, Brussel Sprouts, Cabbage, Cauliflower, Celery, Peppers, Tomatoes and Cucurbits: | **Sandy or Light soils:** 1.75 L/ha  
 **Clay, silt or loam soils:** 2.5 L/ha | **Apply up to 6 weeks before sowing or transplanting.**  
 **With established row crops, use whenever convenient.** | |

ADDITIONAL USE PRECAUTIONS:

Applied according to directions and under normal growing conditions Treflan NF will not harm the treated crop. Seedling disease, cold weather, deep planting, excessive moisture, high salt concentration or drought may weaken crop seedlings and increase the possibility of crop damage. Under these conditions, delayed crop development or reduced yields may result.

Under prolonged dry conditions, or prolonged cold wet conditions, certain crops are susceptible to injury when planted in soil previously treated with Treflan NF. To avoid such injury it is advisable to plant sensitive grasses such as ryegrass or wheat for 12 months following Treflan NF application. Sowing linseed deeper than 3cm may result in some linseed stand reduction.

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