

## WARNING

KEEP OUT OF REACH OF CHILDREN  
READ LABEL COMPLETELY BEFORE OPENING OR USING

# Spinnaker

**HERBICIDE**

**For the post-emergence control of certain weeds in  
clover seed crops and lucerne.**

Contains 240 g/litre imazethapyr as the ammonium salt in the form of a soluble concentrate.

**GROUP B HERBICIDE**

**1 L**

Registered to and distributed by:  
BASF New Zealand Limited  
P.O. Box 407, Auckland 1140  
Phone: 0800 932 273  
Fax: 0800 940 000

 **BASF**  
We create chemistry

## Hazard Classification

6.3B, 6.4A, 9.1A, 9.2B



## WARNING

**HARMFUL.** May cause mild skin irritation. May cause eye irritation.

**VERY TOXIC TO AQUATIC LIFE.** May cause long-term adverse effects in the aquatic environment. Drift and runoff from treated areas may be hazardous to aquatic plants in adjacent aquatic sites.

**TOXIC TO THE SOIL ENVIRONMENT.** Selective herbicide - very toxic to some plant species (certain plants may be killed or damaged from root uptake of this product).

## PRECAUTIONS

**HANDLING:** This product must be under the personal control of an APPROVED HANDLER when applied in a wide dispersive manner or by a commercial contractor.

**STORAGE:** Store in original container, tightly closed away from foodstuffs. DO NOT store in direct sunlight. Stores containing more than 100 litres require emergency response plans and secondary containment systems, and are subject to signage.

**TRANSPORT:** DO NOT carry more than one litre of this product on a passenger service vehicle.

**SPILLAGE:** Prevent any product from entering drains. Wear appropriate protective clothing. Absorb spill with an inert material (such as vermiculite, clay granules or synthetic absorbent) and place in a labelled, sealable container for disposal. Wash the spill area with water and detergent, then absorb the washings and place in the same sealable container. Dispose of the container in an approved landfill or under at least 50 cm of soil in a non-crop, non-pasture area away from water sources and homes.

**PERSONAL PROTECTION:** When mixing or applying, wear cotton overalls buttoned to the neck and wrist, washable hat, impervious gloves, and face shield or goggles.

**GENERAL SAFETY AND HYGIENE MEASURES:** Avoid contact with eyes, skin or clothing and inhalation of spray mist. Wash splashes of concentrate from skin and eyes immediately. DO NOT eat, drink or smoke while using this product. Remove protective clothing and wash hands and exposed skin thoroughly with soap and water before meals and after work. Wash protective clothing immediately after use. Store work clothing separately.

**USE AND ENVIRONMENTAL PROTECTION:** Apply using well-maintained and accurately calibrated equipment. DO NOT allow spray drift outside the target area to occur. DO NOT spray over, or allow drift over, surface water such as ponds, waterways or drains. Clean out application equipment thoroughly after use. DO NOT contaminate water when disposing of equipment wash waters.

**RECORD KEEPING:** Records of use must be kept if 3 litres or more is applied within 24 hours in a place where it is likely to enter air or water and leave the place.

**NOTE:** Storage, application and record keeping must be as described in the current version of the New Zealand Standard for the Management of Agrichemicals NZS8409.

**DISPOSAL:** Container: Ensure container is completely empty. Triple rinse empty container and add residue to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Product: Dispose of this product only by using according to the label or at an approved landfill. DO NOT burn. DO NOT contaminate any water supply with chemical or empty container.

## FIRST AID

If exposed or concerned get medical advice/attention. IF SWALLOWED: DO NOT induce vomiting. Rinse mouth. For advice contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor. IF ON SKIN: Remove contaminated clothing and wash skin with plenty of soap and water. DO NOT scrub the skin. If skin irritation or rash occurs, get medical advice/attention. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.



Approved pursuant to the HSNO Act 1996. Code HSR000523.

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

Registered pursuant to the ACVM Act 1997, No. P4906.

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

Date of Manufacture:

Batch Number:

**EMERGENCY PHONELINK**  
24 Hour Advice in an Emergency Only  
**0800 944 955**

IIIIII BAR CODE IIIIII

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## GENERAL INFORMATION

This herbicide inhibits the enzyme acetolactate synthase in plants (ALS inhibitor). SPINNAKER can be used either pre- or post-emergence of the weeds. When the product is applied pre-emergence of the weeds, susceptible weeds may emerge but growth will be retarded and the weeds will either die or remain stunted and will not compete with the crop. Adequate soil moisture is important for optimum activity. When applied post-emergence of the weeds, they will either die or remain stunted and will not compete with the crop. For use post-emergence of the weeds, a non-ionic surfactant must be added to SPINNAKER.

## RESISTANCE MANAGEMENT

SPINNAKER contains imazethapyr, a herbicide from the imidazolinone chemical family with inhibition of acetolactate synthase (ALS) mode of action [GROUP B HERBICIDE]. Some naturally occurring weed biotypes resistant to Group B herbicides are known to exist and can eventually dominate the weed population if these herbicides are used excessively. To minimise this risk use strictly in accordance with label instructions. SPINNAKER should be used in a programme that incorporates effective herbicide products with different modes of action. Refer to the NZCPR web site for more detailed information ([www.nzpps.org/resistance/index.php](http://www.nzpps.org/resistance/index.php)).

## FOLLOWING CROP RESTRICTIONS

Under conditions that do not favour the breakdown of this product, e.g. prolonged dry conditions, carry-over soil residues can affect susceptible follow crops. See FOLLOW CROP GUIDELINE.

## DIRECTIONS FOR USE

**Beware: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.** It is an offence to use this product in a manner that results in damage outside the treated property.

### Restraints:

DO NOT apply to very wet soils if rain is imminent or to soils prone to waterlogging.

DO NOT apply to crops or weeds under stress caused by factors such as root or foliar diseases, nutrient deficiencies, or extremes of temperature or moisture.

| CROP                    | WEEDS CONTROLLED   | RATE per Ha  | CRITICAL COMMENTS   |
|-------------------------|--|--|---|
| Clover<br>Seed<br>Crops | Chickweed ( <i>Stellaria media</i> )<br>Cleavers ( <i>Galium aparine</i> )<br>Hedge mustard ( <i>Sisymbrium officinale</i> )   | 300-400 ml<br><br>plus a non-ionic surfactant at 200 ml/100 litres or Hasten™ at 500 ml/100L | Apply when the crop is at the 2 trifoliolate leaf stage or later.<br><br><b>Apply to actively growing seedling weeds in the cotyledon to 4 leaf stage.</b>  |
|                         | Annual poa ( <i>Poa annua</i> )<br>Catsear ( <i>Hypochaeris radicata</i> )<br>Catchfly ( <i>Silene gallica</i> )<br>Chamomile, scentless ( <i>Matricaria perforata</i> )<br>Chamomile, rayless ( <i>Matricaria matricarioides</i> )<br>Chickweed, mouse-ear ( <i>Cerastium fontanum ssp. trivale</i> )<br>Dandelion ( <i>Taraxacum officinale</i> )<br>Dock ( <i>Rumex spp.</i> )<br>Dove's foot ( <i>Geranium molle</i> )<br>Fathen ( <i>Chenopodium album</i> )<br>Fennel ( <i>Foeniculum vulgare</i> )<br>Field madder ( <i>Sherardia arvensis</i> )<br>Fumitory ( <i>Fumaria officinalis</i> )<br>Groundsel ( <i>Senecio vulgaris</i> )<br>Hawksbeard ( <i>Crepis capillaris</i> )<br>Henbit ( <i>Lamium amplexicaule</i> )<br>Large flowered mallow ( <i>Malva sylvestris</i> )<br>Nightshade, black ( <i>Solanum nigrum</i> )<br>Parsley piert ( <i>Arphanes arvensis</i> )<br>Scrambling speedwell ( <i>Veronica persica</i> )<br>Shepherd's purse ( <i>Capsella bursa-pastoris</i> )<br>Sorrel ( <i>Rumex acetosa</i> )<br>Spurrey ( <i>Spergula arvensis</i> )<br>Storksbill ( <i>Erodium cicutarium</i> )<br>Twin cress ( <i>Coronopus didymus</i> )<br>Willow weed ( <i>Polygonum persicaria</i> )<br>Wireweed ( <i>Polygonum aviculare</i> ) | 400 ml<br><br>plus a non-ionic surfactant at 200 ml/100 litres or Hasten™ at 500 ml/100L     | Weeds may not be totally controlled but populations will be significantly reduced and surviving plants will generally be severely retarded and will not compete with the crop. Good crop growth will aid weed control.<br><br>For grass weeds, a follow-up spray with a selective grass herbicide may be required.<br><br>Refer to the Crop Safety and Follow Crop sections of this label regarding follow crops. |

| CROP    | WEEDS CONTROLLED       | RATE per Ha  | CRITICAL COMMENTS   |
|---------|------------------------|--|---|
| Lucerne | As listed under clover | 400 ml<br><br>plus a non-ionic surfactant at 200 ml/100 litres or Hasten™ at 500 ml/100L | <u>Seedling</u> : Apply when the crop is at the 2 trifoliolate leaf stage or later.<br><br><u>Established</u> : Apply following cutting or grazing.<br><br><b>Apply to actively growing seedling weeds in the cotyledon to 4 leaf stage.</b><br><br>Note CRITICAL COMMENTS applying to weed control in clover above.<br><br>Refer to the Crop Safety and Follow Crop sections of this label regarding follow crops. |

#### 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.**

DO NOT graze or cut for stock food for 42 days after application.

#### MIXING

SPINNAKER mixes readily with both hard and soft water. Fill the spray tank to one half to three quarters full with clean water and then, with the agitation system operating, add the required amount of SPINNAKER and fill the tank up. When tank mixing SPINNAKER with other recommended compatible products, first add the other product to the half full spray tank and mix thoroughly before adding more water and then SPINNAKER.

#### APPLICATION

Avoid overlaps when spraying. Apply in 200-300 litres/ha water using flat fan nozzles. DO NOT apply SPINNAKER under conditions (e.g. dead calm, excessive wind and/or small droplets) likely to cause spray drift onto wetlands or waterways, natural vegetation, crops other than specified on the label or land to be planted with susceptible crops. Thoroughly flush all spray equipment with water following use of SPINNAKER and before use with other products. DO NOT discharge rinse water where it will reach streams, water bodies or natural vegetation.

#### COMPATIBILITY

DO NOT tank mix with selective post-emergence grass herbicides. DO NOT apply these herbicides following use of SPINNAKER until grasses have resumed active growth.

#### CROP SAFETY

This product may cause slight shortening of plant internodes and may in some circumstances lead to transient crop yellowing but plants soon recover and yield is unaffected. This effect may be more pronounced when the product is used under poor growth conditions or when white clover is beginning reproductive growth. DO NOT use SPINNAKER pre-emergence on seedling clover or lucerne. Should re-sowing of clover or lucerne be necessary, DO NOT re-apply SPINNAKER.

#### FOLLOW CROP GUIDELINE

Under conditions that do not favour breakdown of this product, carry-over soil residues can affect susceptible follow crops. As environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product, rotational crop injury is always possible. The following minimum follow crop intervals (months after application) should be observed:

#### MONTHS AFTER APPLICATION

| 6   | 9                           | 18                                       | 24              |
|---|-----------------------------|--|-----------------|
| beans<br>clover<br>lucerne<br>peas<br>wheat | barley<br>maize<br>ryegrass | brassica<br>oats<br>sorghum<br>sweetcorn | all other crops |