

DANGER

KEEP OUT OF REACH OF CHILDREN
READ LABEL BEFORE USE

Sharpen[®]

Contains 700 g/kg saflufenacil in the form of a water dispersible granule.
POWERED BY KIXOR[®] HERBICIDE

GROUP 1 4 HERBICIDE

A broadleaf herbicide for use pre-emergence in maize and sweet corn crops, pre-plant burn down in seed bed preparation and conservation tillage, in apple and pear orchards, and in non-agricultural situations.

Contents: 150g

Registered to and distributed by:

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DANGER

Suspected of damaging fertility or the unborn child. Causes damage to organs (liver) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

PRECAUTIONS

HANDLING: The person mixing or applying this product must be a Qualified Contractor or a Qualified Person. Any person mixing, loading or handling this product must be a Qualified Loader. Obtain special instructions before use. DO NOT handle until all safety precautions have been read and understood. Use personal protective equipment as required.

STORAGE: Store locked up. Store in original container, tightly closed in a dry, cool, well-ventilated place away from food and animal feeds. Protect against moisture and from direct sunlight. Stores containing 100 kg or more of this product require emergency response plans and secondary containment systems and are subject to signage.

SPILLAGE: Collect spillage. Prevent further spillage and product from entering waterways. Wear overalls, gloves, footwear, and goggles. Sweep and shovel up spill and place in sealable container labelled for disposal. Avoid dust formation. Wash affected area with water and detergent. Absorb and collect washings and place in the same sealable container as the spilled material. Dispose of the waste safely in suitable landfill.

PERSONAL PROTECTION: When mixing or applying, wear overalls buttoned to the neck and wrist, suitable footwear, a washable hat, suitable chemical resistant gloves, and safety goggles or face shield.

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

USE AND ENVIRONMENTAL PROTECTION: Apply by ground based methods only. DO NOT apply directly into or onto water. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Apply with well-maintained and accurately calibrated equipment. Prevent spray drift onto other crops and non-target plants outside of the target area or severe damage may result. Clean out application equipment thoroughly after use. DO NOT contaminate water when disposing of equipment wash waters. Wear personal protective equipment if re-entry work is required within 24 hours of application where this product has been applied at 30 g/ha or greater. Public access is not permitted during this period.

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

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 container and add rinsate to the spray tank. Recycle the rinsed container through Agrecovery (0800 247 326, www.agrecovery.co.nz). Product: Dispose of this product only by using according to the label or at an approved landfill. DO NOT burn product. DO NOT contaminate surface water with chemical or empty container. DO NOT reuse this container for any other purpose.

FIRST AID

IF exposed, concerned or feel unwell: Get medical advice. For advice contact the National Poisons Centre 0800 POISONS (0800 764 766) or a doctor



GENERAL INFORMATION

SHARPEN is a novel herbicide for use in tank mix with knockdown herbicides such as glyphosate to enhance the speed of knockdown and to broaden the weed spectrum of the knockdown partner. Symptoms of herbicidal activity are visible soon after application with death ensuing in a few days. SHARPEN is systemic but thorough coverage of the target weed is necessary for best results. Best results are obtained from application to small, actively growing weeds. Conditions conducive to maximum photosynthesis (moist, warm, bright sunshine) are ideal. SHARPEN also assists in the rapid desiccation and reduction in palatability to stock of poisonous weeds such as ragwort.

Symptoms: SHARPEN is rapidly absorbed through the roots and foliage of plants. Within a few hours following application, the foliage of susceptible weeds shows signs of desiccation, and in subsequent days necrosis and death of the plant. Extremes in environmental conditions e.g. temperature and moisture, soil conditions and cultural practices may affect the activity of SHARPEN. Under warm moist conditions, herbicide symptoms may be accelerated. Under very dry conditions, the expression of herbicidal symptoms is delayed, and weeds hardened off by drought are less susceptible to SHARPEN.

Weeds controlled: When used in tank mixture with glyphosate SHARPEN increases the speed of knockdown of grasses such as annual poa and ryegrass; and broadleaved weeds such as dandelion, docks, clover, mallows, plantains and tall willow herb. When used in tank mixture with a residual grass herbicide in maize and sweet corn crops SHARPEN will control fathen, black nightshade, broadleaf docks (seedling), willow weed and wireweed, and will suppress pink shamrock.

Resistance Management: SHARPEN contains an herbicide from the PPO (protoporphyrinogen-oxidase) group, **GROUP 14 HERBICIDE**. Resistance to SHARPEN could develop from excessive use. To minimise this risk use strictly in accordance with label instructions. Frequency of application is to be strictly in accordance with the Directions for Use. SHARPEN should be used in a programme which incorporates effective herbicide products with alternate modes of action. Refer to the NZCPR web site <www.resistance.nzpps.org> for more detailed information.

EPA Restrictions:

The maximum application rate is 150 g/ha (105 g ai/ha) with a maximum application frequency of 1 application per year or 55 g/ha (17.5 g ai/ha) with a maximum application frequency of 4 applications per year with minimum application interval of 21 days.

DIRECTIONS FOR USE

Beware: Apply this product carefully. Spray drift may cause serious damage to other desirable plants.

Restraints:

- DO NOT use on any crop not specified on the label.
- Except on planted maize and sweet corn crops, DO NOT apply within one day of planting or if rain is expected immediately after planting.
- Cultivars of popcorn may be sensitive to SHARPEN. Check with your local supplier.



Crop	Rate	Remarks
Apple and pear orchards	25 g/ha	Apply under trees that have mature (lignified) bark. Always apply SHARPEN in mixture with an approved glyphosate formulation at the manufacturer's recommended rates. Use no more than 3 times per season under trees, ensuring at least 21 days between applications. Follow precautions for drift on the glyphosate label. Avoid contact to foliage and other green plant tissue. DO NOT use under any other perennial tree or vine crop.

Crop	Rate	Remarks
Pre-plant burn down in seed bed preparation and conservation tillage or pasture renovation	25 g/ha	Apply as a pre-plant burn down prior to sowing new crop or pasture. Always apply SHARPEN in mixture with an approved glyphosate formulation at the manufacturer's recommended rates. Use no more than 2 times prior to planting, ensuring at least 21 days between applications. Refer to the Crop Plant Back & Rotational Recommendations table for crop specific recommendations.
General weed control in industrial and non-agricultural areas e.g. wasteland, yards and fence lines	25 g/ha	Always apply SHARPEN in mixture with an approved glyphosate formulation at the manufacturer's recommended rates.
Maize and sweet corn	150 g/ha	Apply once to maize and sweet corn crops as a pre-emergence treatment as soon as practical after planting and before the crop or weeds emerge. Always apply SHARPEN in mixture with acetochlor, S-metolachlor or FRONTIER®-P at the manufacturer's recommended rates.

Adjuvants: SHARPEN should be used with a suitable adjuvant such as an esterified canola oil (e.g. Hasten™) except when used pre-emergence in maize and sweet corn.

Compatibility: SHARPEN is compatible with most commonly used herbicides, adjuvants and insecticides. Follow the precautions and the directions for use on the partner product label.

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Mixing and Application

Half-fill the spray tank with clean water and start the agitation. Add the required amount of SHARPEN directly into the partly filled spray tank with agitation operating. Rinse any empty containers thoroughly and add rinsate to the spray tank. Add partner herbicides and adjuvant. Complete filling and maintain agitation until spraying is completed. SHARPEN can be applied through conventional spray equipment used for glyphosate application. Care must be taken to avoid drift. Ensure the water rate is sufficient for complete coverage of target weeds.

Drift Management: As SHARPEN is used with glyphosate, application should be undertaken with minimization of drift in mind. Avoid spray solution contacting any desirable plants. DO NOT apply when conditions favour drift e.g. high winds or incorrect pressure and nozzle setup.

Rainfall & Irrigation: SHARPEN is rain fast once dried on the treated weed growth. DO NOT apply if rainfall is expected within 1 hour of application except when used pre-emergence in maize and sweet corn.

Tank Cleaning: To avoid injury to subsequent sprayed crops, thoroughly remove all traces of chemical from mixing and spraying equipment. Flush equipment thoroughly with water after use.

Withholding Periods:

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.

Apple & Pear Orchards	DO NOT graze treated area within 28 days of application.
Maize and sweet corn	DO NOT graze or cut for feed within 28 days of application.
Pasture	Grazing, or cultivating should be delayed 2 days after treatment of annual weeds and 3 days if perennial weeds are present to allow sufficient uptake of glyphosate. DO NOT allow stock to graze until 2 days after treatment. A 14-day Slaughter Withholding Period must be observed for stock after being removed from SHARPEN treated pasture.

Crop Plant Back & Rotational Recommendations:

SHARPEN, when used as directed, does not provide long term residual activity. Refer to the table below for the application-to-sow intervals. For crops not specified, such as tomato and fodder beet, a soil sample must be checked for suitability for planting by means of a germination test prior to full planting. If in doubt contact your spray representative. Check the label of any partner mixed with SHARPEN to determine any other plant back periods or restrictions on use.

Application situation	1 day	1 week	3 weeks	4 weeks
Bare soil, stale seedbed (existing canopy ground cover <80%)	Cereals, grasses, maize, sweet corn, peas, squash		Other legumes	Forage brassica, carrot, onion
Normal pasture canopy, pasture renewal (existing canopy ground cover >80%)		Forage brassica, carrot, onion, potato and other legumes		



CONDITIONS OF SUPPLY

Read conditions of supply before buying and using. If these conditions are unacceptable, return at once unopened. All goods supplied by BASF New Zealand Limited are of a high grade and conform to the chemical description of the label. However, to the extent permitted by law, neither BASF New Zealand Limited nor any of its Distributors accept any liability or responsibility whatsoever for any loss, damage or injury whether direct, indirect or consequential, howsoever arising, in connection with the supply of those goods including without limitation their storage, application, handling or use. BASF New Zealand Limited, nor any of its Distributors, make no warranties of any kind, express or implied, with respect to fitness for purpose (including crop injury, ineffectiveness or any other unintended consequence), merchantable quality or any other matter with respect to these goods. When you are a consumer as defined in the Consumer Guarantees Act 1993 (the "Act") these conditions will be subject to the provisions of the Act. However, the Act will not apply to goods supplied to you for business purposes.

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Date of Manufacture:
Batch No.:

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