

DANGER
KEEP OUT OF REACH OF CHILDREN
READ LABEL BEFORE USE

Nufarm

CREST[®]
520

SCAN ME



FREE RECYCLING



AGRECOVERY

www.agrecovery.co.nz

Active ingredient: 520g/litre haloxyfop-P as the methyl ester in the form of an emulsifiable concentrate.

A selective post emergence herbicide for the control of grass weeds and storksbill in fodder beet, forage brassicas (foliage types), nurseries, non-crop areas, orchards, forestry and certain broadleaf crops.

 **Nufarm**
Grow a better tomorrow

GHS CLASSIFICATION:

Flammable liquid Category 4, Acute oral toxicity Category 4, Aspiration hazard Category 1, Eye irritation Category 2, Specific target organ toxicity (repeated exposure) Category 2, Hazardous to terrestrial vertebrates, Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1

This product must not be used for any purpose, or in any manner, contrary to this label unless authorised under appropriate legislation.

DANGER

- Combustible liquid. Keep away from sources of ignition. In case of fire use water fog, foam, carbon dioxide or dry chemical for extinction. Do not use water in a jet.
- Harmful if swallowed, inhaled or absorbed through the skin. May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause target organ damage from repeated oral exposure at high doses.
- Very toxic to aquatic organisms with long lasting effects. Avoid contamination of any water supply with product or empty container. Crest 520 must not be applied into or onto water.
- Selective herbicide – very toxic to some plant species. Certain plants may be killed or damaged from contact with this product. Do not allow spray drift outside the target area.
- Toxic to terrestrial vertebrates

HANDLING PRECAUTIONS

The person mixing or applying this product must be a “Qualified Contractor” or a Qualified Person”. The spray mixture may also be prepared by a “Qualified Loader”.

STORAGE

- Store in original container, tightly closed and in a locked, dry, cool area away from sources of ignition, foodstuffs, seeds and fertilizers. Store in accordance with NZS 8409 Management of Agrichemicals. Do not store with Class 1, 2, 3.2, 4 or 5 substances.
- Stores containing 100 litres of Crest 520 require secondary containment and signage and more than 100 litres require emergency response plans.
- Stores containing more than 500 litres require two fire extinguishers.

PERSONAL PROTECTION

- Avoid contact with skin and eyes and inhalation of spray mist. When mixing or applying wear eye protection, chemically resistant gloves and boots and overalls. Remove protective clothing and wash hands and face thoroughly after handling. Do not eat, drink, or smoke while using. Wash contaminated clothing before re use.

EQUIPMENT

- Apply with accurately calibrated and well-maintained equipment. Thoroughly decontaminate equipment before using Crest 520 if broadleaf herbicides, such as sulfonylureas have been used. Follow the decontamination instructions on the relevant herbicide label. After spraying decontaminate equipment as per the cleaning instructions, before spraying crops that are sensitive to Crest 520. These include but are not limited to, cereals, maize and grasses.

DISPOSAL

- Triple rinse empty container and add rinsate to spray tank. Recycle empty container. Otherwise crush and bury in a suitable landfill.
- Dispose of product only by using according to the label, or at an approved landfill. Do not burn.

First Aid: If medical advice is needed, have product container or label at hand. If swallowed do NOT induce vomiting. Rinse mouth. IF INHALED: Remove to fresh air and keep at rest in position comfortable for breathing. For advice contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. 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. IF ON SKIN: Wash with plenty of soap and water. If exposed or if you feel unwell call doctor.

Spillage: Collect spillage. Wear appropriate protective clothing. Extinguish all ignition sources, exclude all bystanders from the vicinity of the spill, and prevent material from entering waterways or coming into contact with Class 1, 2, 3.2, 4 or 5 substances. Absorb spills with inert material and place in waste containers. Wash area with water and detergent and absorb with further inert material. Dispose of waste safely in an approved landfill.

Transport: Do not carry Crest 520 on a passenger service vehicle.

Record Keeping: Records of use as described in NZS 8409 Management of Agrichemicals must be kept if 3 litres or more of Crest 520 is applied within 24 hours.

Mixing and Compatibility: Partially fill the spray tank, add the required amount of Crest 520, agitate, then add Bonza® Gold spraying oil if recommended. Agitate thoroughly and add the remainder of the water.

Crest 520 is compatible with triazine herbicides, Archer® 750 and Prestige®. Do not apply Crest 520 in combination with other herbicides unless experience shows efficacy is not affected. Do not apply within 7 days of phenoxy herbicides.

Cleaning the Spray Equipment: After using Crest 520, empty the spray unit completely and drain the whole system. Thoroughly wash inside the spray unit using a pressure hose. Drain the 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 through the pump, lines, hoses and nozzles. Drain and repeat the rinsing procedure twice.

Decontamination: Wash the tank and rinse the system as above, then quarter fill the tank and add an alkali detergent (e.g., household laundry detergent at 500ml or g/100L water) and circulate throughout 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.

RESISTANCE MANAGEMENT:

Crest contains an aryloxyphenoxy propionate **GROUP 1 HERBICIDE**.

Some naturally occurring weed biotypes resistant to Crest could eventually dominate the weed population if this herbicide is used repeatedly. To maximise the effectiveness of herbicides, products containing alternative modes of action should be used in the spray programme. Consult www.resistance.nzpps.org/ for alternative modes of action and details of resistance management strategies (if any) for the crops listed on the label.

SOIL RESIDUES:

Do not plant cereals, maize or grass crops within 12 weeks of treatment.

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.

WITHHOLDING PERIODS

PEAS: Do not apply later than flowering. Do not feed treated crop to lactating animals. Dry dairy stock must be held for 21 days on an untreated feed prior to the first milking.

LENTILS: Do not apply later than flowering.

ASPARAGUS: Do not apply during the cutting season.

ONIONS: Do not apply within 5 weeks of harvest.

FORAGE BRASSICAS (Foliage varieties only): Kale and Late Maturing Rape:

DO NOT apply after the 6-leaf growth stage of the crop.

Meat - DO NOT graze the treated crop until 12 weeks after application. In addition, animals must be held for 14 days on an untreated feed prior to sending for slaughter.

Milk - Do not feed treated crop to lactating animals. Dry dairy stock must be held for 21 days on an untreated feed prior to the first milking.

FODDER BEET:

DO NOT apply after the 8-leaf growth stage of the crop.

Meat - DO NOT graze the treated crop until 14 weeks after application. In addition, animals must be held for 14 days on an untreated feed prior to sending for slaughter.

Milk - Do not feed treated crop to lactating animals. Dry dairy stock must be held for 21 days on an untreated feed prior to the first milking.

RAINFASTNESS:

Crest 520 is rainfast one hour after application.

APPLICATION DIRECTIONS:

Crest 520 may be applied using conventional ground or aerial application equipment.

Boom Spraying: Use 200-400L/ha water. Use nozzles and pressures that produce a medium quality spray. For dense grass infestations increase water rate.

Aerial Application: Use 100-300L/ha water applied as a coarse quality spray.

Spot Gun: Use an extension lance fitted with a solid cone nozzle.

High Volume (including handgun): Apply as a wetting spray to full coverage using either a hand lance fitted with a solid cone or a handgun fitted with a No. 4 tip at 500-2000 kPa to deliver 1000-1500L/ha.

Knapsack: Apply as a wetting spray to full coverage using at least 500L/ha water volume.

DIRECTIONS FOR USE:

For best results apply to young actively growing grass weeds. Reduced levels of control may result if applied to plants suffering from cold or moisture stress.

Use higher rates for grass weeds at advanced stages of growth.

To minimize any possible crop damage avoid spray overlaps.

Crest 520 does not control sedges or broadleaf weeds other than storksbill.

USE RATES FOR WEED CONTROL:

WEED	BROADCAST ml/ha	KNAPSACK ml/10L	SPOTGUN ml/L	HANDGUN ml/100L	COMMENTS
Wild oats	95	2.5	1.2		
Storksbill Musky storksbill	100				
Annual grass weeds including annual ryegrass, summer grass, barnyard grass, bristle grass and volunteer cereals	115	2.5	1.2		Use Bonza Gold for grass weeds at an advanced growth stage or grass weeds growing under stress or slow growth conditions.
Annual poa	290	6	3.0	60	
Cocksfoot, prairie grass, Yorkshire fog, sweet vernal, soft brome (goosegrass)	240-480	5	2.5	50	Use the high rate for grass weeds at an advanced growth stage or grass weeds growing under stress or slow growth conditions.
Seedling perennial ryegrass (up to 3 tillers)	125	2.5	1.25	N/A	Established or regrowth perennial ryegrass will be suppressed.
Perennial ryegrass	240-480	5	2.5	50	Use the low rate with addition of Bonza Gold. Use the high rate without Bonza Gold. For perennial ryegrass at an advanced growth stage or growing under stress or slow growth conditions, use the high rate plus Bonza Gold.
Cultivated couch	240-480				Use low rate on young or actively regenerating couch after extensive cultivation to break roots into small pieces. Use the high rate on tillering couch. The low rate may be used for suppression and the high rate for longer term control.
Sod bound couch, mercer grass, browntop, ratstail, Indian doab, kikuyu, paspalum	720-960	12	8	75	Use the high rate for grass weeds at an advanced growth stage or grass weeds under stress or slow growth conditions. Use the high rate on sod bound couch.
Pampas grass	1450	30	12	95	For best results treat plants less than 1m high.
African feather grass					Repeat applications may be required.
N.B. Hair grass and chewings fescue are not controlled at rates listed above.					

CROPS AND SITUATIONS

Forestry tree release:	Crest 520 may be applied over forestry species including Radiata pine and <i>Eucalyptus</i> species. To control broadleaf weeds in Radiata pine, Nu-trazine™ 900DF, simazine, Nufarm Terbutylazine and Archer® 750 herbicides may be added. To control broadleaf weeds in Eucalyptus species, Archer® 750 may be added. Do not add Bonza Gold spraying oil to mixtures of Crest 520 with either Archer® 750 or Nufarm Terbutylazine.
Tree nurseries:	Crest 520 may be applied over seedling Radiata pine, Eucalyptus, Acacia, Casuarina and other seedling plantation and ornamental tree species. Where there is no previous experience, apply Crest 520 over a few plants before treating larger areas. Do not add Bonza Gold spraying oil.
Pipfruit, citrus:	Crest 520 in mixture with Bonza Gold spraying oil, should be applied as a directed spray around the base of trees. Avoid direct contact with the fruit.
Peas, lentils:	Apply Crest 520 at no more than 290ml/ha. Do not add Bonza Gold spraying oil.
Asparagus:	Apply Crest 520, in mixture with Bonza Gold spraying oil, after the final cut.
Onions:	Apply Crest 520, at no more than 290ml/ha, in mixture with Bonza Gold spraying oil.
Forage brassicas (kale, late maturing rape)	DO NOT apply at rates exceeding 250 mL/ha. DO NOT apply after the 6-leaf growth stage of the crop. Grazing withholding periods apply (refer to the WITHHOLDING PERIODS section of the label).
Fodder beet	DO NOT apply at rates exceeding 250 mL/ha. DO NOT apply after the 8-leaf growth stage of the crop. Grazing withholding periods apply (refer to the WITHHOLDING PERIODS section of the label).

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Registered pursuant to the ACVM Act 1997, No. P8058

See www.foodsafety.govt.nz for registration conditions.

Approved pursuant to the HSNO Act 1996, Approval Code HSR100054

See www.epa.govt.nz for approval controls.

CONDITIONS OF SALE:

CAUTION: READ THIS NOTICE BEFORE OPENING THE CONTAINER

If you open this container you will be deemed to have accepted the conditions below.

The results from use of this product may be affected by factors beyond Nufarm's control, including mixing, use, climatic conditions, time of application, crop or crop stage and the possible development of resistance to the active ingredient, even though the product is reasonably fit for the purposes stated in this label, and even though label directions are followed. Nufarm will replace, free of charge, any product which is found to have a manufacturing defect. To the extent permitted by law, all other warranties, guarantees, representations and conditions, whether expressed or implied by law, trade, custom or otherwise are expressly excluded.

When you use this product, you agree that neither Nufarm Limited nor any manufacturer of any component of the product will be liable for any damage, injury or loss including consequential loss which arises in any way from the storage, handling, or use of the product. This exclusion of liability includes loss caused by negligent acts or omissions of Nufarm Limited or any supplier or manufacturer of the product or any of their employees and agent.

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UN 3082
ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID, N.O.S (haloxyfop-P)
Class 9, PG III, Marine Pollutant