

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

 **FACTOR**[®]

ACTIVE CONSTITUENT:
250 g/kg BUTROXYDIM

HERBICIDE

GROUP 1 HERBICIDE

For the control of certain grasses in a range of broadacre crops as per the DIRECTIONS FOR USE.

WG

WATER DISPERSIBLE GRANULE



Engineered by



DIRECTIONS FOR USE

RESTRAINTS

DO NOT treat weeds that are not actively growing or are growing under stress. Under such circumstances the biological processes of the weeds slow down and Nufarm Factor® transport in the weed can be drastically reduced, resulting in an incomplete kill or suppression only of the weeds.

DO NOT apply to crops or weeds which are suffering moisture stress (waterlogged or drought affected), insect, disease or nutritional disorders, under conditions of prolonged high temperatures or frost affected (or if frosts are imminent) or stress from previous herbicide or foliar fertiliser treatment.

DO NOT apply to annual grass weeds after mid-tilling.

DO NOT apply at flowering stage of weeds.

DO NOT apply at flowering stage of crop.

Spray Drift Restraints

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

DO NOT allow bystanders to come into contact with the spray cloud.

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

CROP	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS
Chickpeas Faba beans Field peas Lentils Linseed Lucerne Lupins Vetches (<i>Vicia</i> spp.) White and Subterranean Clover and Medic pastures	Annual ryegrass (<i>Lolium rigidum</i>) Barley grass, (<i>Hordeum</i> spp.) Wild oats (<i>Avena</i> spp.)	2 leaf to early tillering Zadoks 12 - 23	80 - 180 g/ha + 0.5 L/100L Nufarm CanDo™ Adjuvant*	Use the lower rates for younger weeds growing actively under ideal conditions. Use the higher rates for weeds that are: - predominantly at early tillering, or - present in dense populations, or - growing in poor growing conditions, or - where weed resistance to Group 1 herbicides is suspected. Due to extreme variations in cross resistance present in annual ryegrass populations there is no guarantee Nufarm Factor® will always provide consistently high levels of control but trials have shown higher rates may be expected to perform better than lower rates. Alternatively, see recommended tank mix with clethodim below.
	Annual ryegrass (<i>Lolium rigidum</i>)		80 - 180 g/ha * plus an effective rate of a clethodim herbicide + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Research has demonstrated that populations of annual ryegrass that are resistant to Nufarm Factor® may not have resistance to clethodim. Where annual ryegrass is the main weed present, a mixture of Nufarm Factor® and clethodim is recommended. Guidance can be obtained from labelled tank mixes of the partner herbicide with other dim herbicides.
	Annual ryegrass (<i>Lolium rigidum</i>) together with any of the following grasses: Annual phalaris (<i>Phalaris</i> spp.) Barley grass (<i>Hordeum</i> spp.) Brome grass (<i>Bromus</i> spp.) Volunteer cereals - Wheat (<i>Triticum aestivum</i>) - Barley (<i>Hordeum vulgare</i>) - Oats (<i>Avena sativa</i>) - Triticale (x <i>Triticosecale</i>) Wild oats (<i>Avena</i> spp.)		80 - 180 g/ha * plus an effective rate of fop herbicide containing fluazifop- p, haloxyfop-R, propaquizafop or quizalofop + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Nufarm Factor® has good activity on barley grass and wild oats but is weaker on brome grass and volunteer cereals. The addition of a partner fop herbicide is generally recommended where any of these other weeds occur together with annual ryegrass. Use the partner at the lower end of the range recommended for the particular grass weed.

CROP	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS
Canola (including herbicide tolerant varieties)	Annual ryegrass (<i>Lolium rigidum</i>) Barley grass, (<i>Hordeum</i> spp.) Wild oats (<i>Avena</i> spp.)	2 leaf to early tillering Zadoks 12 - 23	80 g/ha * plus an effective rate of a clethodim herbicide + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Research has demonstrated that populations of annual ryegrass that are resistant to Nufarm Factor® may not have resistance to clethodim. Where annual ryegrass is the main weed present, a mixture of Nufarm Factor® and clethodim is recommended. DO NOT use clethodim rates in canola higher than 250 mL/ha (360 g/L clethodim products) or 375 mL/ha (240 g/L clethodim products). Warning: Canola can be sensitive to Nufarm Factor®. DO NOT use more than 80 g/ha on canola. To minimise risk of crop damage, DO NOT apply to any variety before the majority of plants (80%) are at the true 4 leaf stage (4th leaf expanded, 5th leaf emerging). Apply no later than the end of leaf development (Stage 1*) and prior to the commencement of stem elongation (Stage 3*). Refer to Crop Safety section. Under certain conditions, all varieties may exhibit leaf symptoms and/or reduced early competitiveness. If this occurs, canola yield may be reduced. Avoid spraying stressed crops as crops growing under stress will show slower recovery. Avoid spraying practices that lead to over application such as double overlap, and spraying out corners. Guidance can be obtained from labelled tank mixes of the partner herbicide with other dim herbicides.
	Annual ryegrass (<i>Lolium rigidum</i>) together with any of the following grasses: Annual phalaris (<i>Phalaris</i> spp.) Barley grass (<i>Hordeum</i> spp.) Brome grass (<i>Bromus</i> spp.) Volunteer cereals - - Wheat (<i>Triticum aestivum</i>) - Barley (<i>Hordeum vulgare</i>) - Oats (<i>Avena sativa</i>) - Triticale (<i>x Triticosecalle</i>) Wild oats (<i>Avena</i> spp.)		80 g/ha * plus an effective rate of fop herbicide containing fluzafop-p, haloxyfop-R, propaquizafop or quizalofop + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Warning: Canola can be sensitive to Nufarm Factor®. DO NOT use more than 80 g/ha on canola. To minimise risk of crop damage, DO NOT apply to any variety before the majority of plants (80%) are at the true 4 leaf stage (4th leaf expanded, 5th leaf emerging). Apply no later than the end of leaf development (Stage 1*) and prior to the commencement of stem elongation (Stage 3*). Refer to Crop Safety section. Under certain conditions, all varieties may exhibit leaf symptoms and/or reduced early competitiveness. If this occurs, canola yield may be reduced. Avoid spraying stressed crops as crops growing under stress will show slower recovery. Avoid spraying practices that lead to over application such as double overlap, and spraying out corners. Nufarm Factor® has good activity on barley grass and wild oats but is weaker on brome grass and volunteer cereals. The addition of a partner fop herbicide is generally recommended where any of these other weeds occur together with annual ryegrass. Use the partner at the lower end of the range recommended for the particular grass weed.

CROP	WEEDS CONTROLLED	WEED STAGE	RATE	CRITICAL COMMENTS
Lucerne Mung beans Navy beans Peanuts Soybeans	<i>Echinochloa</i> species - Awlness barnyard grass (<i>E. colona</i>) - Barnyard grass (<i>E. crus-galli</i>) - Japanese millet (<i>E. utilis</i>) <i>Digitaria</i> species - Crab grass (<i>D. sanguinalis</i>) - Summer grass (<i>D. ciliaris</i>)	2 leaf to early tillering Zadoks 12 - 23	120 - 180 g/ha + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Use the lower rate for the control of seedling grasses at the pre-tillering growth stage and growing under good conditions. Use the higher rate for control of grasses at the early tillering (2 to 3 tillers) growth stage. Aerial application - see Spraying Instructions.
Cotton	<i>Chloris</i> species - Feather top Rhodes grass (<i>C. virgata</i>) - Windmill grass (<i>C. truncate</i>) <i>Setaria</i> species - Dwarf setaria (<i>S. italica</i>) - Whorled pigeon grass (<i>S. verticillate</i>) <i>Brachiaria</i> species - Green summer grass (<i>B. subquadriflora</i>) - Velvet grass (<i>B. windsorii</i>)			
Sunflowers	Volunteer Crops - Maize (<i>Zea mays</i>) - Sorghum (<i>Sorghum bicolor</i>) Crowsfoot grass (<i>Eleusine indica</i>) Dinebra (<i>Dinebra reflexa</i>) Early spring grass (<i>Eriochloa pseudoacrotricha</i>) Johnson grass (<i>Sorghum halepense</i>) (seedling) Liverseed grass (<i>Urochloa panicoides</i>) Spiny burr grass (<i>Cenchrus incertus</i>)			
	<i>Eragrostis</i> species - Elastic grass (<i>E. tenuifolia</i>) - Mexican love grass (<i>E. mexicana</i>) - Stink grass (<i>E. ciliaris</i>)	2 leaf to 5 leaf but prior to tillering	120 g/ha + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	For the control of pre-tillering grasses only. DO NOT apply to tillered grasses.
	Volunteer cereals - Wheat (<i>Triticum aestivum</i>) - Barley (<i>Hordeum vulgare</i>)	2 leaf to early tillering Zadoks 12-22, prior to stem elongation	180 g/ha + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	For the control of grasses from 2 leaf to early tillering only (max. 2 tillers), prior to stem elongation or booting.
	Other Grasses: Coast button grass (<i>Dactyloctenium aegyptium</i>) Grader grass (<i>Themeda quadrivalvis</i>)	2 leaf to 5 leaf but prior to tillering	180 g/ha + 0.5 L/100 L Nufarm CanDo™ Adjuvant*	Use for suppression only of pre-tillered grasses. DO NOT apply to tillered weeds.

* Nufarm CanDo may be substituted with another adjuvant listed in the compatibility section when the alternative is used at 1 L/100 L. For aerial application always use Nufarm CanDo™ or another adjuvant listed in the compatibility section at 1 L/ha.

Refer to the label of the partner herbicide for rates and specific directions for use.

Note: Does NOT control winter grass (*Poa annua*), Silver grass (*Vulpia* spp.), Nutsedge (*Cyperus* spp.) and broadleaf weeds.

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

WITHHOLDING PERIODS

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED

GRAZING:

Canola, Chick peas, Clover, Faba beans, Field peas, Lentils, Linseed, Lucerne, Lupins, Medics, Mung beans, Navy beans, Peanuts, Soybeans, Sunflowers, Vetches: **DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION.**

Cotton: **DO NOT GRAZE OR CUT FOR STOCKFEED. DO NOT FEED COTTON TRASH TO LIVESTOCK.**

GENERAL INSTRUCTIONS

Stress conditions

Moisture stress is a particular problem, whether caused by drought or short term stresses, resulting from a combination of high temperatures and low humidity or by prior use of pre-emergence herbicides resulting in stunted root growth of weeds. An irrigation or effective rainfall must occur immediately before or after spraying if these conditions exist. Other stress conditions to avoid include use of pre-emergence herbicides resulting in stunted root growth of weeds, frost, waterlogging and extended cold conditions. **DO NOT** spray if any stress conditions are evident just prior to application.

Mixing

Add the required amount of Nufarm Factor® (see table) directly to the spray tank which should be 50% full with clean water. After the product is fully dispersed, complete filling the tank. The agitation system should be running during mixing and spraying. If agitation ceases and settling occurs, resuspend contents thoroughly before spraying. Ensure that all in-line strainer and nozzle screens in the sprayer are 100 mesh or coarser. Add any other product next.

Note: Nufarm Factor® should not be mixed in small batch tanks where the volume of water is low, resulting in inadequate mixing and incomplete dilution of the product.

Nufarm CanDo™, or another adjuvant listed in the compatibility section, is essential and should be added last to the spray tank.

The area covered per measure pack will depend upon the application rate/ha according to the following table:

Nufarm Factor® Rate/ha	Hectares covered by					
	1 kg	2 kg	3 kg	4 kg	5 kg	10 kg
80 g	12.5	25	37.5	50	62.5	125
100 g	10	20	30	40	50	100
150 g	6.7	13.3	20.0	26.7	33.3	66.7
180 g	5.6	11.1	16.7	22.2	27.8	55.6

Application

Time of application: Nufarm Factor® is rainfast within 30 minutes. To obtain the maximum benefits of this product, weeds should be sprayed when young and actively growing. Use the lower rates for grasses with up to 4 leaves. Use the higher rates for weeds up to mid-tillering.

Method of application: Good spray coverage is essential for maximum results. Spray equipment must be checked and calibrated accurately prior to application.

Ground Application: Check height of boom above the target weeds to ensure the spray is evenly distributed and a double overlap pattern is obtained. An even distribution of droplets with a MEDIUM to COARSE spray droplet size category is recommended to maximise efficacy and minimise the likelihood of spray drift.

Water volumes per hectare will depend on nozzle selection and ground speed but should be in the range of 50 - 100L/ha. 110° flat fan nozzles are preferred for use with this product. Use higher volumes of spray to achieve better coverage of dense, vigorous weed infestations. A minimum water volume of 80L/ha is recommended where a Coarse spray quality is being used.

Aerial Application: The product may be applied through boom or Micronair units in 20 - 30L of water per hectare. The use of the higher volume is preferred due to more reliable results. Spray quality should be MEDIUM to COARSE spray droplet size category and swath width should not be wider than recommended for type of plane and application unit. Weed control following aerial application may not be as good as from ground application.

Sprayer clean-up or decontamination

Before spraying sensitive crops (which include canola, chickpeas, faba beans, field peas, lupins, lucerne, clover etc) thoroughly remove all traces of SU herbicides such as Nufarm Associate®/Ally® (metsulfuron-methyl), chlorsulfuron or triasulfuron or PPO herbicides Nufarm Unity® (carfentrazone) from mixing and spray equipment immediately after use as recommended on the label for that herbicide.

Crop Safety

The progression of Canola plants beyond leaf development (Stage 1*) to Stem extension (Stage 3*) or side shoot development (Stage 2*) varies depending on the environmental conditions. Under dry, hostile conditions, Stage 1 can finish as early as the 4 leaf stage. To determine if Stage 3 has commenced, dissect young plants and expose the young growth point to determine if floral initiation or the formation of side shoots has commenced.

* Refers to BBCH growth guides from - Lancashire et al (1991). "A uniform decimal code for growth stages of crops and weeds". Ann. Appl. Biol. 119 (3): 561-601. (Note - Stage 2 is not applicable to describe the growth of many of the spring types grown in Australia).

RESISTANT WEEDS WARNING

GROUP 1 HERBICIDE

Nufarm Factor® is a member of the Cyclohexanedione (DIM) group of herbicides. The product has the inhibitors of acetyl CoA carboxylase mode of action. For weed resistance management, the product is a Group 1 herbicide. Some naturally occurring weed biotypes resistant to the product and other Group 1 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 this product or other Group 1 herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Nufarm Limited Australia accepts no liability for any losses that may result from the failure of this product to control resistant weeds.

COMPATIBILITY

Avoid the use of water containing high levels of bicarbonates. Levels greater than 50 ppm have been demonstrated to reduce the efficacy of 'Dim' herbicides such as Nufarm Factor®. Where water containing bicarbonates is being used, the addition of Nufarm Liase at 2.0 % v/v may assist to ameliorate this issue.

The following recommendations are based on results from field and laboratory tests with Nufarm Factor® plus a compatible adjuvant. Compatibility is defined as acceptable physical mixing, nil or generally transient crop effect and grass control within 10% of that from Nufarm Factor® alone. Performance of any tank mix will be better if the maximum rate of Nufarm Factor® is used and the weed growth stages are according to the label. Always refer to the label of the partner product for rates and any specific guidelines and restraints for the crop or situation.

Compatible Herbicides:

Canola: Nufarm Archer® 750, 520 g/L haloxyfop-R products, 360 g/L clethodim products (maximum rate of 250 mL/ha), 240g/L clethodim products (maximum rate of 375 mL/ha) and herbicides containing fluazifop-p, propaquizafop, quizalofop, atrazine, simazine or terbuthylazine.

Pasture, clover based (not brome grass): Broadsword®, Nufarm Bromoxynil 200, Nufarm MCPA LVE 570 (max rate 0.5 L/ha; as some clover vigour reduction possible), MCPA + diflufenican products, diflufenican + bromoxynil products, 520 g/L haloxyfop-R products, 360 g/L clethodim products, 240 g/L clethodim products, herbicides containing fluazifop-p, propaquizafop, quizalofop or simazine.

Compatible Insecticides:

Pulses, canola, pasture: Imidan®, lambda-cyhalothrin, Le-mat*, Pirimor® WG (pirimicarb), dimethoate

Compatible Fungicides:

Pulses: Dithane*, Fortress® (procymidone)

Compatible Trace Elements:

Pulses, canola, pasture: EDTA chelates of Cu, Mn, Zn (such as Agrichem Supa range); sulphates of Cu, Mn, Zn (good quality, such as Agrichem Balance range)

Compatible Adjuvants:

All crops and pasture: For ground application - Nufarm CanDo™ at 0.5 L/100 L of water or Loveland MSO with LECl-TECH* spray adjuvant at 1 L/100 L are the only recommended adjuvants. For aerial application - Nufarm CanDo™ or Loveland MSO with LECl-TECH* spray adjuvant at 1 L/ha are the only recommended adjuvants. For both ground and aerial application, adjuvants must be added to at least 10 times the volume of water especially where a suction (filling) probe is used.

Nufarm Factor® is not compatible with Lorsban* (reduced grass weed control) or Brodal* (increased crop effect).

DO NOT tank mix Nufarm Factor® plus a compatible adjuvant with more than one of the above products without doing a jar test beforehand. However, physical compatibility does not guarantee biological compatibility.

DO NOT tank mix with other products or trace elements without reference to a Nufarm representative.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions or from spraying equipment which may cause spray to drift onto nearby susceptible plants, crops, cropping lands or pastures.

DO NOT plant cereal crops for a period of 4 weeks after application of Nufarm Factor®.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Highly toxic to algae and aquatic plants. **DO NOT** contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. **DO NOT** store for prolonged periods in direct sunlight. Single rinse or shake remainder into spray tank. **DO NOT** dispose of undiluted chemicals on site. Puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. **DO NOT** burn empty containers or product.

SAFETY DIRECTIONS

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. Avoid inhaling dust. When preparing product for use wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow-length chemical resistant gloves and goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with 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, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

ADDITIONAL STATEMENTS (WHS REGULATIONS 2011)

Suspected of **damaging fertility or the unborn child. Causes serious eye damage. DO NOT** eat, drink or smoke when using this product. Wear protective gloves, clothing, eye and face protection. IF SWALLOWED: Rinse mouth. IF ON SKIN: If skin irritation occurs. Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

SAFETY DATA SHEET

For further information refer to the Safety Data Sheet (SDS), which can be obtained by scanning the QR code, from your supplier or the Nufarm website.

In case of emergency: Phone 1800 033 498 (24 hrs) and ask for shift supervisor.

PRODUCT STEWARDSHIP INFORMATION AND TOOLS

nufarm.com.au/spraywise is a website which contains resources on spray drift management, recording keeping and application technologies.

spraywisecisions.com.au is an online weather forecasting program and is recommended for use when planning your pesticide application.

When spraying in or near areas with sensitive crops such as cotton, check online at satacrop.com.au for the proximity of sensitive crops mapped by growers.

stewardshipfirst.com.au is a website with CropLife Australia's suite of world-leading product stewardship initiatives, programs and best-practice guides.

CONDITIONS OF SALE

Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies, expressed or implied under common law, statute or otherwise, in relation to the sale, supply, use or application of this product, are excluded. Nufarm Australia Limited and/or its affiliates ("Nufarm") shall not accept any liability whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of this product except for liability which cannot be excluded by statute.

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For product advice, or to learn more about complementary Nufarm solutions, reach out to your local Nufarm specialist or call **1800 NUFARM (1800 683 276)**.

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