

# Grasp 400SC

Contains 400g/l (35.1% w/w) tralkoxydim as a suspension concentrate and 1,2-benzisothiazol-3-one.

**Selective herbicide for the control of Wild oats, Blackgrass, Ryegrasses and other grass weeds in wheat, barley, durum wheat, winter rye and triticale.**

## PRODUCT BENEFITS

- Control of Wild oats in crops such as spring barley, winter rye and triticale where there are often few alternatives.
- Rainfast within one hour.
- Can be used as part of a programme to control Perennial and Italian ryegrass.
- Broad range of crop recommendations.
- Can be used up to GS 41.

**LERAP category:** Unclassified

**Pack size:** 5 litres

**Storage:** PROTECT FROM FROST



**IMPORTANT INFORMATION**

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE.

<b>Crop</b>	<b>Maximum individual dose</b>	<b>Maximum number of treatments</b>	<b>Latest time of application</b>
Winter sown wheat, barley, rye, triticale and durum wheat	0.875 l/ha	One per crop	Before flag leaf sheath extending stage (GS 41)
Spring sown wheat and barley	0.625 l/ha		

*Other specific restrictions:*

- The maximum concentration must not exceed 0.875 litres GRASP in 200 litres of water.
- This product must always be co-applied with Output (ADJ 0163) at a rate of 0.75 litres per 200 litres of diluted spray.
- To avoid the build up of resistance do not apply products containing an ACCase inhibitor herbicide more than twice to any crop. In addition, do not use this product in mixture or sequence with any other product containing tralkoxydim.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

MAPP 13594

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

## DIRECTIONS FOR USE

**IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.**

### PROPERTIES OF GRASP 400SC

GRASP 400SC, containing tralkoxydim, is a foliar-applied, translocated herbicide for the selective control of Wild oats, Blackgrass, Ryegrasses and other grass weeds in winter and spring cereals.

The activity of GRASP 400SC is by foliar uptake only and independent of soil type, soil Kd levels or organic matter. Weeds germinating after application will not be controlled.

GRASP 400SC is rapidly absorbed through the leaves and moves to the growing point. The growth of susceptible weeds ceases within a few days of application, preventing further weed competition. Decay of the growing points is seen after two to three weeks.

### RESTRICTIONS

The maximum concentration must not exceed 0.875 litres GRASP 400SC in 200 litres water.

This product must always be co-applied with Output (ADJ 0163) at a rate of 0.75 litres per 200 litres of diluted spray.

DO NOT use on oats.

DO NOT spray undersown crops or crops that are to be undersown.

**Ryegrasses must not be sown within three months of the application of GRASP 400SC.**

### CROPS

For use on all commercially available varieties of winter wheat, spring wheat, winter barley, spring barley, triticale, winter rye and durum wheat.

#### *Timing*

Always inspect crop and weed growth stage immediately before spraying.

For best results, delay spraying until emergence of grass weeds is complete but spray before the largest plants have reached the maximum recommended growth stage. See weed control tables for application details.

#### **Winter cereals**

GRASP 400SC may be applied from the two leaves unfolded stage of crop growth (GS 12) up to and including the flag leaf ligule just visible stage (GS 39). Winter cereals may be sprayed once in the autumn or once in the spring.

#### **Spring cereals**

GRASP 400SC may be applied from the end of tillering (GS 30) up to and including the flag leaf ligule just visible stage (GS 39).

#### *Dose rate*

#### **Adjuvant**

GRASP 400SC must always be used with Output (ADJ 0163) at a rate of 0.75 litres per 200 litres of diluted spray.

## WEEDS CONTROLLED

### Wild oat control

Crop	Timing	Wild oat growth stage	Dose
Winter cereals	Autumn or Spring	From two unfolded leaves to early tillering	0.375 l/ha
		From two unfolded leaves to first node detectable* GS 12–31	0.875 l/ha
Spring cereals	Spring	From two unfolded leaves to first node detectable* GS 12–31	0.625 l/ha

\* Larger weeds up to the third node detectable stage will not be fully controlled but the 0.875 l/ha rate will give a useful reduction in numbers.

### Blackgrass control

Crop	Timing	Blackgrass growth stage	Dose
Winter cereals	Autumn or Spring	Up to four unfolded leaves or two tillers*	0.5 or 0.625* l/ha
		Up to three tillers GS 23	0.875 l/ha

\* Use the higher rate on heavy infestations (over 300/m<sup>2</sup>)

### Blackgrass (low to moderate populations)

When used in the spring, GRASP 400SC at the 0.875 l/ha rate will provide a useful level of control of late-emerging, small Blackgrass (up to 3 tillers). A tank-mixture of 0.625 l/ha GRASP 400SC and the recommended rate of an approved formulation of isoproturon will provide control of larger Blackgrass (but not beyond the second node detectable stage).

This mixture may only be used on crops of wheat and barley.

This mixture may only be used on medium, heavy and organic soils.

DO NOT use this mixture on light, sandy, gravelly or chalky soils.

DO NOT treat stressed crops.

### Ryegrass control – Perennial and Italian

Crop	Timing	Ryegrass growth stage	Dose
Winter cereals	Autumn  or Spring	From three unfolded leaves up to two tillers (GS 12–GS 23)	0.625 l/ha
		From three unfolded leaves up to and including third node detectable (GS 13–GS 33)	0.875 l/ha

*Continued on next page...*

...continued from previous page

Crop	Timing	Ryegrass growth stage	Dose
Spring cereals	Spring	From three unfolded leaves up to stem erect stage (GS 13 to GS 30)	*0.625 l/ha

\* Moderately susceptible – high levels of control may be achieved.

### Control of other grass weeds in cereals

Weeds	Crop	Dose	Notes
Yorkshire fog* ( <i>Holcus lanatus</i> )	Winter cereals	0.875 l/ha	*Qualified minor use recommendations due to limited data on the susceptibility of these weeds to GRASP 400SC
Awned canary grass# ( <i>Phalaris canariensis</i> )	Spring cereals	0.625 l/ha	Applications should be made from three unfolded leaves to two tillers (GS13–GS22) when the grass weeds are actively growing  Do not apply in cold conditions or if the grass weeds are suffering from moisture stress

# Recommendations only for use in spring.

### RESISTANCE MANAGEMENT

This product contains tralkoxydim which is an ACCase inhibitor, also classified by the Herbicide Resistance Action Committee as 'Group A'. Use only as part of a resistance management strategy that includes cultural methods of control and does not use ACCase inhibitors as the sole chemical method of grass weed control. Applying a second product containing an ACCase inhibitor to a crop will increase the risk of resistance development; only use a second ACCase inhibitor to control different weeds at a different timing.

Strains of some annual grasses, e.g. Blackgrass, Wild oat and Italian ryegrass, have developed resistance to herbicides which may lead to poor control. Guidelines have been produced by the Weed Resistance Action Group. Copies are available from the HGCA, CPA, your distributor, crop advisor or Nufarm UK.

### CROP SPECIFIC INFORMATION

#### Weather

For best results GRASP 400SC should be applied when the weeds are actively growing i.e. in warm humid weather with adequate soil moisture. Treatment in poor growing conditions or dry soil conditions may give less reliable control.

GRASP 400SC is rainfast one hour after drying on the crop.

DO NOT spray when weed or crop foliage is wet or covered in ice.

DO NOT spray if a period of protracted cold weather is forecast.

## Agricultural practice

The activity of GRASP 400SC is not dependent on soil type so it is recommended on all soils, including organic soils. Cloddy seedbeds or high levels of ash and trash do not affect weed control.

DO NOT roll or harrow within one week of spraying.

DO NOT spray crops suffering stress such as may be caused by recent chemical treatment, waterlogging, drought stress, grazing, pest infestation, mineral deficiency or poor fertility or where soil compaction has restricted root growth. Application where crops are under stress may sometimes be followed by leaf discolouration of the crop, which is transient and does not affect yield. Thin or bare patches providing little or no crop competition may allow some late grass weed recovery.

DO NOT allow spray drift into neighbouring crops, especially oat crops.

ENSURE that spray swaths are matched accurately and do not overlap. Take particular care to avoid any form of accidental overdosing on durum wheat.

## Use in spray programmes

Do not use GRASP 400SC, sulphonylureas and phenoxy herbicide products in the same sequence or programme.

## Following crops

Reygrasses must not be sown within three months of the application of GRASP 400SC.

## MIXING AND SPRAYING

To aid rapid absorption, good foliage cover with the spray is essential and care should be taken to ensure that the sprayer has a matched set of nozzles; that the machine is correctly calibrated and adjusted to the correct height above the target before spraying commences.

### Mixing

Shake the GRASP 400SC container before opening.

Half-fill the spray tank with clean water and start agitation. Add the recommended quantities of GRASP 400SC and Output using a filling device (e.g. induction bowl, probe) or by direct addition to the spray tank. Wash out containers thoroughly. Preferably use an integrated pressure rinsing device or manually rinse three times. Add washings to the spray tank at the time of filling. Top up tank with water to required level.

When tank mixing with GRASP 400SC and Output, each product should be added separately to the bulk of the water in the spray tank and thoroughly mixed before adding the second chemical. Agitate during completion of filling and spray immediately.

### Water volume

Even cover of the weeds is essential for good results.

Use 200 to 400 litres per hectare of water. Use the higher volume to improve coverage in dense crops.

### Spraying

Apply through a well maintained conventional hydraulic field crop sprayer using a pressure of 2-3 bars. Apply as a MEDIUM spray (as defined in the BCPC Nozzle Selection Handbook). DO NOT USE a COARSE spray. Ensure sprayer is correctly calibrated before use. Do not leave spray liquid in the sprayer for long periods (i.e. during meals or overnight).

Wash equipment thoroughly after use with Agral and water at a ratio of 50 ml Agral to 100 litres of water. Spray tank washings on to waste ground and away from water courses.

Do not re-use container for any purpose.

## COMPATIBILITY

Before using any tank mixture, please consult Nufarm UK Ltd for advice on mixture products.

**GRASP 400SC**

**Contains 400 g/l (35.1% w/w) tralkoxydim as a suspension concentrate and 1,2-benzisothiazol-3-one.**

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDSTUFFS.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

**To avoid risks to man and the environment, comply with the instructions for use.**

## SAFETY PRECAUTIONS

### Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WASH CONCENTRATE from skin or eyes immediately.

TAKE OFF IMMEDIATELY all contaminated clothing.

### Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE OUT CONTAINER THOROUGHLY, preferably using an integrated pressure rinsing device or by manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

Approval holder Syngenta.