Betanal

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GROUP 5 HERBICIDE

Betanal Flow is a selective herbicide or pos emergence use on many annual providence deveds in beet crops.

A suspo-emulsion formulation cortainin 160 g/L (15.8% w/w) phenmedip ham

For Professional us 1 only

Authorisation holder:

Bayer CropScience Ltd. 230 Cambridge Science Park Milton Road, Cambridge CB4 0WB United Kingdom

Meting company:

ayer Trop Sence Ltd E ver Lt , 1st Floor, The Grange Offices The Grange, Brewery Foad, Stillorgan, Co. Dublin A94 H2K7 Safety information

BETANAL FLOW UFI: Y6D0-10SE-4009-SCTJ Contains 160 g/L (15.8% w/w) phenmedipham.

WAL N'.

C use serious eye irritation. Very 'oxic to aquatic life with long lasting ffec s.

Wear protective gloves/protective clothing/eye protection/face protection.

Collect Spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for triple rinsed empty containers which can be disposed of as nonhazardous waste.

To avoid risks to human health and the environment, comply with the instructions for use.

PCS No. 06664

SHAKE WELL BEFORE USE.

PROTECT FROM FROST

Freephone: 1800 818534 For 24 hour emergency information contact

Bayer CropScience Limited Telephone: 00800 1020 3333



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SAFETY PRECAUTIONS

Operator Protection

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

However engineering control may replace personal protective equipment if an assessment shows they provide an equal or higher standa of protection.

WASH HANDS AND EXPOSED SKIN beic reating, drinking or smoking and after w. rk

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 farmyarus and roads).

Extreme care, nust be taken to avoid spray drift onto nun-crup, junts outside the target area.

Stor .ge and Disposal

KETP IN ORIGINAL OON TAIN IR tightly closed in a safe place.

RINSE CONTAIL EF 1 HOROUGHLY by using an integrated pressure rinsing device or manually ri sing three times. Add washings to sprayer at the chilling and dispose of safely.

RE1.2.1LL INSTRUCTIONS CAREFULLY BE FORE USE.



To access the **Safety Data Sheet** for this product scan the code or use the link below:

www.bayercropscience.ie/sds/betanalflow.pdf

or alternatively contact your supplier

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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.

INTRODUCTION

Betanal Flow is a selective herbicide for post-emergence use on beet crops.

As Betanal Flow is a contact material, its activity is not affected by soil type and it may be used on all soils, including fen peats.

Crop:	Sugar beet, fodder beet, red beet and mangels
Maximum single dose (per crop):	2.5 L/ha
Maximum number of applications at max. single dose:	
Max. total dose (per crop):	6.0 L/ha
Latest time of application:	Befor Clear s unfolded (GL 18)
Other Specific Restrictions:	app indum of 960 g of oher medipham can be app ind in any 12 me this arised.

WEEDS CONTROLLED

Correctly timed applications of Beta, at Elevin a repeat long dose programme will control the following weeds, up to and inclucing the cotyledon state.

Weeds Controlled (daper din, or correct dose and timing)

Commor He np-nettle	Pale Persic
Common Ora she	Red Dead-
	Scarlet Pin
Fot-Her	Shepherd's
Field Pa by	Small Nettl
Grour dsel	Wild Radis
	Common Orache Col timo i Politi y Fat-Hen Fielo Palisy

icaria I-nettle mpernel 's purse tle sh

Moderately Susceptible (der ending on correct dose and timing)

Corn Marigold	Forget-me-not	Redshank
Corn Spurrey	Ivy-Leaved Speedwell	
Field Pennycress	Knotgrass	

Cleavers

Moderately Resistant (depending on correct dose and timing)

Scentless Mayweed

Betanal Flow will not control annual or perennial grasses or perennial broad-leaved weeds. Mayweed-severe check or kill up to 2.5 cm across or high.

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CROP INFORMATION

Sugar beet, fodder beet, red beet and mangels

All varieties, including crops grown for seed, may be treated at any stage of growth **from cotyledons fully expanded**, providing the crop is not under stress.

Betanal Flow acts by contact with the weeds and should be used in a repeat low dose programme of sprays starting when the weeds reach the cotyledon stage.

Factors Affecting Crop Tolerance

When used as recommended, Betanal Flow exhibits good safety to beet. Several factors may affect crop tolerance and individually may appear to have little effect, but may be important when two or more occur at the same time. (see COMPANY ADVISORY INFO. MATION)

Drift

Avoid drift to areas outside those being sprayed, having due regard to the prevailing weather conditions and spray quality being used. The risk of clift is greater when a FINE goality spray, as recommended for this product, is used.

APPLICATION

Repeat Low Dose Programme

Dose: 2.5 L/ha (Total dose not t exceed 6.0 L/ha per crop). **Volume:** 80–100 litres of water p, r hecta e.

Spray operations and Sp. sy Cuality

IMPORTANT - SHA' & TI E C.Y WELL PEFORE (SE

1. Wash out the spra, ar, spraybars and nozz as to ensure that no trace remains of previous products, mis is no t important are hor nor and sulfonyl urea weedkillers. Contaminated hoses should be replaced by ne v hoses.

NB All hose connections must buse ured with hose clips.

- 2. Check that nozzle tip: are cle. n. i. damaged, of the correct type to give a FINE quality spray, and are all of the same size, giving equal spray outputs and distribution.
- 3. Half fill the spray tank with clean water and start agitating. Check the agitation is operating correctly. Add the required quantity of Betanal Flow, mixing well by agitation, and complete filling to the final volume. Mix only sufficient chemical for immediate use and continue agitation until the tank load is used.

(See COMPATIBILITY AND SEQUENCES for any special instructions for preparing tank mixes.)

 Ensure that the spray nozzles are set at the correct height to give even spray cover. Commence spraying, being careful to maintain correct pressure and tractor speed. Avoid overdosing or drift onto neighbouring crops. After each day's work, drain the sprayer, wash thoroughly with water and liquid detergent and spray out completely. Ensure that all liquid is removed from the sprayer tank, pump and hoses. Remove nozzles, open tank and drain pump to allow free access of air to all parts of the system.

Betanal Flow should be applied overall as a FINE quality spray (for details see "Boom Sprayers Handbook" published by BCPC).

Even cover with a FINE quality spray is essential for good results. Take care to avoid overlapping.

Betanal Flow may be used in sequence with a pre- or post-emergence residual herbicide to extend weed control and improve the spectrum of control.

Do not apply Betanal Flow to any crop which shows signs of stress, paracularly those grown on light soils in a wet season.

Tank mixing with other beet herbicides

Betanal Flow may be tank-mixed with Nortron® SC 50, PCS 05& 3) or metamitron. Application timing and dose rates should be according to the manufactul pre-recommendations for talik-mixes with phenmedipham:

Where spraying has been unavoidably delay d and we ds are beyond $d = cc^{1/4}$ and stage, mixtures of Betanal Flow + Nortron Flow²¹ giv $\lim_{p \to \infty} v$ ed weed control es_1 art of a low dose programme.

Mixture with Nortron Flo - Crops All varieties of sugar beet, funder seet, red beet and mangels.

Apply Betanal Flow 1.75 L/ha. Non on Flc 0.6 L/ha from crop growth stage 2 true leaves expanded. Up to 2 applications may be made.

Where Betanal Flow is used in ank mixes the other components should be diluted first in half the final volume of water before adding the Betanal Flow and the remainder of the water.

COMPATIE LITY

BETANAL FLOW may be applied as a lank mix with a range of other products. Contact Bayer CropScience for compatibility information on specific tank-mixes. Full manufacturer's instructions must be followed for each tank-mix component.

COMPANY ADVISORY INFORMATION

Crop Tolerance

When used as recommended, Betanal Flow exhibits good safety to beet. Several factors may affect crop tolerance and individually may appear to have little effect, but may be important when two or more occur at the same time. Application of Betanal Flow or Betanal Flow mixtures is not recommended when the crop is suffering from stress. Betanal Flow should not be used where crops are under stress from previous herbicide applications, insect attack, nutrient deficiency or where frost, low or high temperatures or wind damage may predispose the crop to a check, or where rolling or harrowing has been carried out within 7 days.

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High Temperatures

When the temperature is, or is likely to be, above 21°C (70°F) on the day of spraying, application of Betanal Flow should be made after 5 pm otherwise crop check may occur.

If crops are subjected to substantial day to night temperature changes shortly before or after spraying, a check may occur from which the crop may not fully recover.

High Light Intensity

Where the crop is already under stress, and Betanal Flow is sprayed in conditions of high light intensity, the crop may suffer a check from which it may not fully recover.

Under high light intensity or high temperatures the full rate of Betanal Flow should not be used and mixtures with oil should not be used under these conditions.

Do not apply Betanal Flow when rain is imminent.

Factors relating to product/crop agronomy

Certain weeds may develop resistance to Bayer Crop "cier ce Ltd. products. Since such circumstances are beyond our control, Bayer will Loundor no lability for any rejulting loss or damage whatsoever.

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