

# GOLTIX TITAN<sup>®</sup>

MAPP 17301

A pre- and post-emergence herbicide for use against annual broad-leaved weeds in sugar beet and fodder beet.

A suspension concentrate formulation containing  
40 g/L (3.4% w/w) quinmerac and  
525 g/L (45.1% w/w) metamitron.



ADAMA



Scan for Safety Data Sheet or use weblink:  
<https://bit.ly/2NWZp47>

FR R3.1.1 JUL19



## Warning

**Toxic to aquatic life with long-lasting effects.  
Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.**

Keep out of reach of children.

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

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

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# GOLTIX TITAN®

MAPP 17301

SHAKE WELL BEFORE USE

DIRECTIONS FOR USE:

full instructions in this leaflet.

Batch No.: see packaging

Adama Agricultural Solutions UK Ltd

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[www.adama.com](http://www.adama.com) | [ukenquiries@adama.com](mailto:ukenquiries@adama.com)

For advice on medical emergencies, fires or major spills telephone  
the National Chemical Emergency Centre on 01865 407333

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

OPEN HERE ►

## 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 GLOVES when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.  
TAKE OFF IMMEDIATELY all contaminated clothing.

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

### 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.  
WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

## IMPORTANT INFORMATION

FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum individual dose (L product/ha)	Maximum total dose (L product/ha)	Latest time of application
Sugar beet, fodder beet (Pre- and post-em programme)	Pre-emergence 3.0 AND Post-emergence 1.0	6.0 (3.0 pre-emergence and 3.0 post-emergence) <i>See other specific restriction no. 4</i>	9 leaves unfolded (BBCH 19)
Sugar beet, fodder beet (Post-em only)	2.0	6.0 <i>See other specific restriction no. 4</i>	9 leaves unfolded (BBCH 19)

### Other specific restrictions:

1. Do not handle treated crops for at least 2 days after treatment.
2. Fodder beet must not be grazed by livestock or harvested for animal consumption until at least 90 days following the last application of GOLTIX TITAN®.
3. The minimum interval between applications is 5 days.
4. To be used either as pre-emergence followed by post-emergence use, OR post-emergence use only.

**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.**

BK R3.1.1 JUL19

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## **This leaflet is part of the approved label.**

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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.

### RESTRICTIONS

Do not apply to crops suffering from stress. This may be due to a number of factors e.g. nutrient or trace element deficiency such as manganese, soil acidity, drought, periods of low temperatures or frost, substantial day to night time fluctuations, high light intensity, wind or hail damage, use after other herbicides, pest or disease attacks.

Do not apply when temperatures exceed 21°C or in strong sunlight. If treatment is essential, delay spraying until the temperature falls and light intensity reduces.

An interval of at least 5 days must elapse between applications of GOLTIX TITAN®.

### RESISTANCE

GOLTIX TITAN contains metamitron, a Group C1 herbicide and quinmerac a Group O herbicide according to the mode of action classification system of the Herbicide Resistance Action Committee. Quinmerac has a narrow weed spectrum, with the main target for control being cleavers.

A strategy for preventing and managing resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB, CPA, your distributor, crop adviser or product manufacturer.

Growers are advised to apply products containing herbicides with different modes of action in sequence, as co-formulations or in tank-mix, where two or more components are active against the target weeds.

Use the recommended rate of GOLTIX TITAN and the correct application timing for the hardest to control weed species present in the field. The above should be used in conjunction with effective cropping rotation and cultivation techniques e.g. stale seedbed, cultivation and use of non-selective herbicide prior to drilling.

### WEEDS CONTROLLED

GOLTIX TITAN can be used pre or post-emergence. The best results are achieved when weeds are between the cotyledon and two-leaf stages.

	Pre-emergence followed by post-emergence programme	Post-emergence only programme
Annual mercury	-	R
Black-bindweed	-	R
Black nightshade	MR	S
Chickweed	MS	S
Cleavers	MS	S
Common fumitory	MR	R
Common field-speedwell	-	S
Common orache	-	S
Red dead-nettle	S	S
Fat-hen	S	MR
Field pansy	MS	MS
Field penny-cress	-	MS
Foal's parsley	-	R
Groundsel	S	S
Knotgrass	-	R
Pale Persicaria	-	-
Redshank	-	S
Shepherd's purse	S	S

S = Susceptible  
MR = Moderately resistant

MS = Moderately susceptible  
R = Resistant

## CROP SPECIFIC INFORMATION

GOLTIX TITAN may be safely used on all commonly grown sugar beet and fodder beet varieties under normal conditions. There may be a reduction in crop tolerance if the beet is under stress; factors such as application in high light intensity, high temperatures, nutrient deficiency.

## RATE OF USE

### Pre-emergence followed by post-emergence

Apply 3.0 L/ha of GOLTIX TITAN in 80-200 L/ha of water after drilling of the crop but before crop emergence. Three further applications should be applied post-emergence of the crop from seed leaf stage: cotyledons completely unfolded to 9 leaves unfolded (BBCH 10-19). The minimum interval between applications is 5 days and the maximum total dose is 6.0 L/ha (maximum 3.0 L/ha pre-emergence and 3 x 1.0 L/ha post emergence).

### Post-emergence only

Three applications, each of 2.0 L/ha of GOLTIX TITAN in 80-200 L/ha of water should be applied post-emergence to the crop, from seed leaf stage: cotyledons completely unfolded to 9 leaves unfolded (BBCH 10-19). The minimum interval between applications is 5 days and the maximum total application rate is 6.0 L/ha (maximum 3 x 2.0 L/ha).

## FOLLOWING CROPS

Beet crops may be sown at any time following the use of GOLTIX TITAN.

Providing 16 weeks elapse from the last application of GOLTIX TITAN, winter cereals may be sown in the same season. After normal harvest, any crop can be grown in the following spring. Deep and thorough cultivation is necessary before sowing or planting succeeding crops. Mouldboard ploughing to a minimum depth of 15 cm is recommended before seedbed preparation.

## MIXING AND SPRAYING

Shake GOLTIX TITAN well before use. Fill the spray tank with two thirds of the required amount of water. With the mixer switched on, add the product and the remaining water. Rinse empty containers thoroughly and add rinsings to the spray tank.

Continue agitation until spraying is completed.

Wash out sprayer thoroughly after use.

Apply as a MEDIUM spray as defined by BCPC.

Crops should not be re-entered until spray residues are dry.

## COMPATIBILITY

GOLTIX TITAN is compatible with the following products:

Nufarm Cropoil Sniper	Phase II Arma	Rifle
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Always read the label of the partner product carefully before use.

## DISCLAIMER/CONDITIONS OF SUPPLY

The specified properties of our products and the mode of application stated on this label have been established on the basis of research and experience. Products conform to specification at the time of delivery but, as we exercise no control over their subsequent storage, handling, mixing or use or the weather conditions before, during and after application, all of which may affect the performance of the products, no responsibility or liability will be accepted by us or our re-sellers for any failure in performance, damage or injury to person or property whatsoever arising from the storage, handling, application or use of the products. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in or make recommendations concerning the use of such products. We recommend you contact your dealer to request advice on the suitability of this product for any new and/or unusual growing methods or for new varieties not listed on this label.

## Marketed by

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