# **8 SHOTPUT®**

Water dispersible granule

..... 70% w/w

# Ingredients

HERBICIDE

• Metribuzin .....

# Crops

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A residual herbicide for control of weeds in potatoes.

# Warning

Very toxic to aquatic life with long lasting effects. Contains (disodium maleate). 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 triple rinsed, empty 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.

IMPORTANT INFORMATION FOR PROFESSIONAL USE ONLY AS AN AGRICULTURAL HERBICIDE						
Crops:	Potato – earlies	Potato - maincrop 0.75 kg/hectare pre-emergence AND/OR 0.5 kg/hectare post-emergence				
Maximum individual dose:	0.75 kg/hectare					
Maximum total dose:	0.75 kg/hectare per crop	1.25 kg/hectare per crop (maximum 0.5 kg/ hectare applied post-emergence)				
Latest time of application:	Pre-emergence	Before the shoots of potatoes reach 15cm in length				

Other specific restrictions:

A minimum of 21 days must be observed between applications.

A maximum total dose of 0.35 kg active substance/hectare/season (0.5 kg Shotput/ hectare/season) may be applied post-emergence of the crop.

Do not apply via hand-held equipment.

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.

ADAMA Agricultural Solutions UK Ltd

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# Scan for Safety Data Sheet

Or use the weblink : https://bit.ly/3EFhFYM Alternatively, contact your supplier.



The Voluntary Initiative







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SHOTPUT® is a water dispersible granule formulation containing 70% w/w metribuzin. It is a residual herbicide for control of weeds in potatoes.

## DIRECTIONS FOR LISE

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

SHOTPUT<sup>®</sup> is both a contact and residual herbicide. It can be used to control weeds in named varie pre-emergence and in certain varieties post-emergence. A list of varieties which may be treated is summarized below. For the latest information, please consult ADAMA Agricultural Solutions UK List ed varieties representatives.

SHOTPUT should not be used if a previously applied residual herbicide still remains in the soil. This is especially significant on organic soils. RESTRICTIONS

Avoid drift as SHOTPUT may damage sensitive crops especially sugar beet, brassicas and lettuce. Note that the second se

SOIL TYPES AND CONDITIONS

Do not use SHOTPUT on sands. Do not use SHOTPUT pre-emergence on Maris Piper in very light soils and do not treat this variety post-emergence.

Tubers should be planted in a moist, clod-free bed with a good tilth with well-rounded ridges. After planting, no further improvements should be required to the soil tilth; further cultivations will increase weed germination and reduce the effectiveness of SHOTPUT.

The sol should be moist when spraying. Dry conditions may reduce the effectiveness of SHOTPUT. The residual activity of SHOTPUT may be reduced on peaty and organic soils and on mineral soils with high organic matter content.

## WEATHER

Yellowing of foliage may accur as a result of treatment, which is more frequent if spraying is carried out less than 3 days after cool, cloudy weather and particularly if a sudden change to hot sunny conditions occurs at the time of spraying. The crop should outgrow this yellowing.

In conditions of high sunlight intensity and high daytime temperatures, spraying should be carried out in the evening. On gravelly or stony soils damage may occur particularly if heavy rain falls soon after application.

## FOLLOWING CROPS

Before drilling or planting the next crop, the soil must be mould-board ploughed to a depth of at least 15 cm. It is recommended that ploughing takes place as soon as possible after lifting and definitely before the end of December.

The following intervals must be observed between application of SHOTPUT and drilling or planting the following crops:

Cereals, rye-grass, winter beans:	16 weeks
All crops except lettuce and radish:	The following spring
Lettuce and radish:	These crops should not be grown in the year after SHOTPUT treatment.

Contact ADAMA Agricultural Solutions UK Ltd in the event of crop failure due to poor growing

## RESISTANCE

SHOTPUT contains metribuzin a triazinone belonging to HRAC group 5

Always follow WRAG guidelines for preventing and managing h icide resistant weeds. imise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, stale ibeds, delayed planting, etc.) Ma:

Use tank mixes or sequences of herbicides with different modes of action within individual crops Copies of the guidelines may be obtained from your distributor, crop advisor or product manufacturer.

For further advice on resistance management, contact your agronomist or specialist advisor. POTATO VARIETIES

Not all varieties of potato may be safely treated with SHOTPUT. For the latest list of potato varieties which may be treated with SHOTPUT contact ADAMA Agricultural Solutions UK Ltd Varieties which may be treated:

First earlies. pre-emergence:	Alcmaria. Arran Comet. Ostara. Maris Bard. Pentland Javelin. Ulster Sceptre. Orla.		
Second earlies. pre-emergence:	Ausonia. Estima. Marfona. Maris Peer. Nadine.Wilja		
Maincrop. pre-emergence:	Maris Piper*, Asterix, Markies, Mayan Gold, Melody, Roos er, Shannon, Vales Sovereign.		
Maincrop. pre- and post-emergence:	Cara. Desiree. King Edward. Kingston. Pentland Crown. Pentland Dell. Pentland Squire. Record. Romano. Claret. Isle of Jura. Vales Everest. Vivaldi.		

\*not on Sands or Very Light soils.

WEEDS CONTROLLED

Perennial broad-leaved weeds and grasses are not controlled by SHOTPUT. \* Post-emergence weed control up to 1 expanded true leaf is recorded in the table; how annual broad-leaved weeds will be controlled beyond this stage. ever most

Species	Pre-emergence	Post-emergence* 0.35-0.5 kg/ha		
Annual Meadowgrass	s	S		
Black-bindweed	MS	s		
Blackgrass	S	MS		
Black Nightshade	R	MS		
Bugloss	S	S S R S S		
Charlock	S			
Cleavers	R			
Common chickweed	s			
Common fumitory	S			
Common orache	S	S		
Common poppy	S	S		
Corn marigold	-	MS		
Corn spurrey	S	S		
Fat-hen	s	s		
Field forget-me-not	s	s		
Field pansy	s	MS		
Field pennycress	s	s		
Groundsel	s	s		
Henbit dead nettle	s	s		
Hemp-nettle	s	-		
Knotgrass	s	MS		
Mayweed spp.	s	s		
Pale persicaria	s	s		
Red dead nettle	s	s		
Redshank	s	s		
Scarlet pimpernel	S	S		
Shepherd's purse	S	S		
Small nettle	S	S		
Speedwell spp	S	S		
Sun spurge	S	-		
Volunteer oil-seed rape	S	S		
Wild radish	s	s		

S = susceptible, MS = moderately susceptible, R = resistant, - = insufficient information Specific weed situatio

#### Early germingting weeds

For best control, apply SHOTPUT® between the cotyledon to one true leaf stage.

Black bindweed is best controlled at the cotyledon to 2 true leaf stage. It is less sensitive to pre emergence treatments.

Late germinating weeds, including black-bindy

A post-emergence application may be made to listed safe main crop varieties before leadi reach 15cm. Efficacy of SHOTPUT on black bindweed is improved with post emergence app

#### Perennial arasses

It the potato core follows grass, then either a suitable herbicide and/or cultivations should be used to kill the sward in the autum. Following weeds can then be controlled using SHOTPUT post-emergence on recommended maincrop varieties. SHOTPUT will suppress common couch when applied post emergence up to the two-leaf stage.

CROP SPECIFIC INFORMATION

#### Traditional Method

Intertational results Overall application (not incorporated) pre-emergence to recommended earlies varieties and pre- or post-emergence to recommended maincrop varieties. Persistence and residual activity and weed control may be less than the listed susceptibilities in maincrops grown on all soil types and earlies grown on all soil types except very light and light soils. Pre-crop emergence applications

Potato & soil type*	Rate		
Earlies (first and second):			
Very light, light, medium & heavy soils:	0.75 kg/ha		
Second earlies:			
Peaty & organic soils:	0.75 kg/ha		
Maincrop:			
Very light, light, medium, heavy, peaty & organic soils:	0.75 kg/ha		

## st-emergence appli

Listed maincrop varieties:		
All soils:	0.35 kg/ha	or 0.5 kg/ha #

# See Specific Timings and Application Methods belo

\* Soil Classification ADAS 85 system.

Do not use SHOTPUT on potatoes grown in sand soils. Water volume

## Traditional method:

Use a minimum of 200 litres of water per hectare using a Medium Quality spray (as defined by BCPC). Where the soil is claddy, it is advisable to increase the volume of water. For past-emergence application use a minimum of 130 litres of water per hectare and a Fine Quality spray (as defined by BCPC).

## Application

Apply pre- or post-emergence to the soil surface. Even coverage of both sides of the ridge is im Care should be taken in particular with post-emergence applications where the crop is shelter: weeds; it is esential that the spray penetrates the canopy. Do not apply SHOTPUT in windy co npon ring the Filters should be at least size 80 mesh. Filters finer than 80 mesh should not be used.

## Specific timings and application methods

Incorporation of SHOTPUT into the soil

No solis containing greder than 10% organic matter and on mineral soils under dry conditions, SHOTPUT should be incorporated at a rate of 0.75kg/ha inst be top 10-15 cm of soil during the final cultivation. This gives increased activity and is especially dowintageous of those varieties which car be treated post-emergence. This method is particularly useful to increase activity on soils with more than 10% organic matter.

Pre-glanting: On cold containing greater than 13% organic matter and an mineral solit in dry conditions, paylo 123 Salyhan of SHOTUUL, incorporating into the top 10% contains on solid ulting the final cultivation. Suitable cultivators are ratery harrows, rotary cultivators or spring time harrows. A suitable ground an ematchick may be incorporated into the solit of the same time, incordance with the important that indiges do not incorporate untratest sall which would allow weeds to establish. A final rigging up may be made, before the corp meters dorsa the rows.

For recommended maincrop potatoes grown in two-row beds only, a follow-up post-emerg treatment of up to 0.5 kg/ha of SHOTPUT may be applied. This will give useful control of lat gerninating weeds in the furrows.

germonting weeds. In the furrows. Best-planting: Pice the tubers in a hallow ridges and apply 0.75kg/ha of SHOTPUT. Before the crap emerges, incorporate by cultivating shallowly while at the some time ridging up. The cultivator shall be fitted with subtle ridging bodies. In the case of second early varieties this opplication may only be made on soils containing more than 10% arganic matter. A further application of up to 0.3 kg/ha of SHOTPUT will be needed to control later germinating weeds. The second application may also be applied post-emergence before the leading shoots of the potatose are 15 cm long:

### Post-emergence applications

This method is for use on recommended maincrop varieties only. The method is only recommended until the weeds reach the cotyledon stage. If weeds are beyond this stage control may be reduced. Rate of Use: On recommended varieties only, make 1 application at 0.35-0.5 kg/ha.

Timing: Application should be carried out at or before early cotyledon stage of the weeds until the most advanced shoots of the potatoes are 15 cm long.

SHOTPUT should be used pre-emergence on crops destined for use as seed.

#### Temp ary plastic mulches

temporary passic mucnes Using the traditional method of application, early potatos may be treated with SHOTPUT and covered with plastic mulches. Since effective control of weeks by SHOTPUT dependent on soil mosture, it is important that corpo are well ingraded before the mulch is applied. Application should also be made to well-prepared, closel-nee ridges. If using this method on mineral soils with a high argain matter content the residual activity of SHOTPUT may be reduced. This may result in indequate weed control. MIXING AND APPLICATION

#### For use by tractor mounted/tra ed sprayer only.

Add half the required amount of our provide the provide the red begin registrian. Add the recommender openiting of SPCINII. On entrying the to the provide the red begin registrian and the recommender integrated pressure insing device or manually rivining three times. Add vashings to sprayer at time of filling, through the filter basket, and dispose of constanties safety. Maintain agistation throughout the filling, travelling and spraying operations. Dilute solutions should be sprayed immediately. After spraying, throughly clean the sprayer using a recognised decontaminant.

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

For information on tank mixes, consult ADAMA Agricultural Solutions UK Ltd, your agronomist or your distributor.

## COMPANY ADVISORY SECTION

This section is not part of the Product Label under the Plant Protection Products Regulations and provides additional advice on product use at the discretion of ADAMA Agricultural Solutions UK Ltd.

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