

# Metric®

## Pre-emergence herbicide for the control of annual meadow grass and broad leaved weeds in potatoes

ZC formulation based on a mixture of a capsule suspension (CS) and suspension concentrate (SC) containing 60 g/l clomazone and 233 g/l metribuzin

GROUP

13

5

HERBICIDE

PCS No.: 06276

### RISK AND SAFETY INFORMATION

**Metric®** - ZC formulation based on a mixture of a capsule suspension (CS) and suspension concentrate (SC) containing 60 g/l clomazone and 233 g/l metribuzin.

**Very toxic to aquatic life with long lasting effects.**

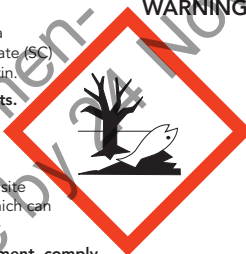
Avoid release to the environment.

Collect spillage.

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean triple-rinsed 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.**

### WARNING



PCS No.: 06276

**24 Hour emergency No.  
0032 14 58 45 45**

HERBICIDE

Content:

**5L**

H

Production date / Batch number:  
see packaging

**FOR USE ONLY AS AN  
AGRICULTURAL HERBICIDE  
FOR PROFESSIONAL USE ONLY  
PROTECT FROM FROST**



Distributed by:  
**Whelehan Crop Protection**  
Suite 12, Bunkilla Plaza  
Bracetown Business Park  
Clonee, Co Meath, Ireland  
Technical enquiries:  
00 353 1 4688900

Authorisation Holder :  
**Certis Belchim BV**  
Stadsplateau 16, 3521 AZ Utrecht,  
PO Box 607, 3500 AP Utrecht,  
Netherlands

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Belchim Crop Protection nv/sa



**Certis Belchim**  
GROWING TOGETHER

Marketing company: **Certis Belchim BV**  
Suite 5, 3 Riverside | Granta Park  
Great Abington | Cambridgeshire | CB21 6AD  
Tel.: +44 (0)1223 652500  
info.uk@certisbelchim.com  
www.certisbelchim.com



HERBICIDE

IMPORTANT INFORMATION  
FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

| Crop/<br>Situations         | Maximum single<br>dose: | Maximum total dose<br>(per crop): | Latest time of<br>application: |
|-----------------------------|-------------------------|-----------------------------------|--------------------------------|
| Potatoes<br>(seed and ware) | 1.2 L/ha                | 1.2 L/ha                          | Pre-crop emergence             |

**Specific weeds controlled:**

**Susceptible:** Annual meadow grass, Common orache, Shepherd's purse, Fat hen, Cleavers, Red dead-nettle, Black bindweed, Redshank, Black nightshade, Common chickweed, Small nettle and Fool's parsley.

**Moderately susceptible:** Common field speedwell

To protect aquatic organisms respect an unsprayed buffer zone of 10m to surface water bodies.  
To protect non-target plants respect an untreated buffer zone of 5m to non-crop land.

**Other specific restrictions:**

This product must not be applied 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.**

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**WARNING**



PCS No.: 06276

**24 Hour emergency No. 0032 14 58 45 45**



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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:

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

- WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) when applying the product.

When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after work.

If swallowed, seek medical advice immediately and show this container or label.

### **ENVIRONMENTAL PROTECTION**

- To protect aquatic organisms respect an unsprayed buffer zone of 10m to surface water bodies.
- Avoid drift during application.
- To protect non-target plants respect an untreated buffer zone of 5 metres to non-crop land.
- Do not contaminate water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### **STORAGE AND DISPOSAL**

- Keep out of the reach of children.
- Keep away from food, drink and animal-feeding stuffs.
- Keep in original container, tightly closed, in a safe place.
- Wash out container thoroughly, empty washings into spray tank and dispose of safely.
- Do not re-use container for any purpose.

### **RESTRICTIONS**

- Some transient crop bleaching may occur under certain climatic conditions and can be severe where heavy rainfall follows application. This transient crop effect is rapidly outgrown and has no effect on crop yield.
- Do not use on soils that are compacted or of a poor structure which may then be liable to water logging.
- Reduced levels of weed control may occur if application is made to dry cloddy seedbeds or if a

prolonged dry period follows application.

- Do not overlap spray swaths.
- The safety of Metric to daughter tubers has not been tested; consult the manufacturer or your advisor before using on seed crops.
- There is a risk to adjacent crops and non-crop vegetation from the volatilisation of clomazone. This may result in damage/bleaching to neighbouring vegetation. Extreme care must be taken to reduce the risk of off-target movement. Use the correct boom height. Only spray when wind speeds are between 1.2-4 miles per hour (Force 1 to 2 on the Beaufort scale, at 10m above ground). Maximum speeds of 10km/hr and 8km/hr in high risk fields are advised (high risk fields are those surrounding sensitive crops or non-target species, plant nurseries, gardens and allotments). Use higher water volumes and a COARSE spray quality. Once mixed, use immediately - do not leave the spray solution standing in the spray tank.

### **RESISTANCE STRATEGY**

As part of Good Agricultural Practice, steps should be taken to adopt a resistance management strategy as standard. METRIC should be alternated or mixed with herbicides with a different mode of action and similar spectrum of activity. Any subsequent herbicide applications should be made using herbicides with a different mode of action. Other measures relevant for prevention of the risks of resistance are: deep ploughing, mechanical weed control, preventing dispersion of weed seeds and soils between different sites and cultivation of competitive crop cultivars.

Strains of some annual grasses, e.g. black-grass, wild-oats, and Italian ryegrass, have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the AHDB Cereals and Oilseeds, CPA, your distributor, crop adviser or product manufacturer.

### **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.**

## CROP SPECIFIC INFORMATION

METRIC is a residual herbicide which can be used on different varieties of potatoes. The following maincrop and early potato varieties\* may be treated pre-emergence:

### Early potatoes

| First earlies           | Second earlies    |
|-------------------------|-------------------|
| <i>Alcmaria</i>         | <i>Ausonia</i>    |
| <i>Arran Comet</i>      | <i>Estima</i>     |
| <i>Maris Bard</i>       | <i>Marfona</i>    |
| <i>Ostara</i>           | <i>Maris Peer</i> |
| <i>Pentland Javelin</i> | <i>Nadine</i>     |
| <i>Ulster Sceptre</i>   | <i>Wilja</i>      |

### Maincrop potatoes

|                    |                       |                        |
|--------------------|-----------------------|------------------------|
| <i>Cara</i>        | <i>Kingston</i>       | <i>Pentland Squire</i> |
| <i>Desiree</i>     | <i>Pentland Crown</i> | <i>Record</i>          |
| <i>King Edward</i> | <i>Pentland Dell</i>  | <i>Romano</i>          |

\*For information on other potato varieties please contact Belchim Crop Protection or your METRIC distributor.

## WEED CONTROL

The following weeds are susceptible to METRIC, when applied pre-emergence of the weeds to a moist, firm seedbed free from clods:

|                        |                    |  |
|------------------------|--------------------|--|
| Susceptible            | Grass weeds        | <i>Annual meadow grass</i>   |
|                        | Broad leaved weeds | <i>Common orache, Shepherd's purse, Fat hen, Cleavers, Red dead-nettle, Black bindweed, Redshank, Black nightshade, Common chickweed, Small nettle and Fool's parsley.</i> |
| Moderately susceptible | Broad leaved weeds | <i>Common field speedwell</i>  |

## TIMING OF APPLICATION

METRIC must be applied pre-emergence of the crop and target weeds, following the last ridging and before ridge cracking (i.e. approximately 7 days before expected potato emergence). Crop plants emerged at the time of application may be severely

damaged.

Extreme care must be taken to avoid drift on to non-target plants outside of the target area; particularly sensitive crops include lettuce, sugar beet and brassicas.

## DOSE

Apply METRIC at a dose of 1.2 l/ha.

Maximum number of treatments: one per crop and no more than one per year. Consult processor before using on crops for processing.

## WATER VOLUME AND SPRAY QUALITY

Apply in 200 to 400 L of water per ha as a COARSE spray (as defined by BCPC).

## SOIL TYPE

Do not use METRIC on the textural group of soils known as 'Sands' or 'Very light' soils (ADAS 85 classification).

Do not use on soils with more than 10% organic matter.

## SEED DEPTH / SEEDBED CONDITIONS

For crop safety cover the seed potato with a minimum of 20 mm of soil. For optimum efficacy, the seedbed should be firm, level and free of clods. Loose and puffy seedbeds should be consolidated before spraying.

## FOLLOWING CROPS

Before drilling or planting any succeeding crop, soil MUST be mouldboard ploughed to a depth of at least 15 cm (6") taking care to ensure that the furrow slice is inverted. Ploughing should be carried out as soon as possible (preferably within 3-4 weeks) after lifting the potato crop, **but certainly no later than the end of December.**

### In the same year

Provided at least 16 weeks have elapsed after the application of the recommended rate of METRIC, cereals and winter beans may be grown as following crops.

### In the following year

Do not grow any vegetable brassica crop (including cauliflower, calabrese, Brussels sprout and cabbage), lettuce or radish on land treated with METRIC in the previous year.

Cereals, oilseed rape, field beans, combining peas, potatoes, maize, turnip, linseed and sugar beet may be sown from spring onwards in the year following METRIC use.

### REPLACEMENT CROPS

Following crop failure and after soil cultivation only winter beans may be sown. Provided that at least 16 weeks have elapsed after METRIC application winter beans may be sown or planted. For all replacement crops, soil should be ploughed and cultivated to a minimum depth of 25 cm.

### SPRAYING

Before using METRIC, ensure that the spraying equipment is clean.

1. Half fill the tank with clean water and commence agitation. Add the required dose to the spray tank and complete filling, continuing agitation until spraying is completed.
2. On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times when empty. Add washings to the sprayer at time of filling and dispose of container safely.
3. Use immediately. Do not leave spray solution standing in the tank.

If using an induction system then mixing should be as follows:

1. Half fill the induction bowl with clean water.
2. Slowly pour the required amount of product into the induction bowl, turn on the pump and suck the contents of the induction bowl into the spray tank, at the same time rinsing the bowl.
3. On emptying the container, rinse container thoroughly by using an integrated pressure rinsing device or manually rinsing three times when empty. Add washings to sprayer at time of filling and dispose of container safely.
4. Repeat the procedure of half filling the bowl with water and sucking out until no trace of product remains on the mesh, filter, drain hole or sides of the bowl.
5. Ensure all contents are sucked out and the bowl is thoroughly rinsed before adding any tank-mix partner.
6. Use immediately. Do not leave spray solution standing in the tank.

### SPRAY TANK CLEAN OUT

All application equipment and contaminated clothing should be thoroughly washed/cleaned with water diluted detergent solution, and rinsed with clean water three times. After each step of washing drain the sprayer, 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.

Care should be taken not to rinse contaminated washings from application equipment into waste water channels. Contaminated cleaning liquids should be disposed of safely according to local regulations.

Operators should read the sprayer manufacturer's instructions before beginning to wash out sprayers.

### WARRANTY

Exhaustive research has pointed out that the product, if applied according to the distributors' prescriptions, is suitable for the given usages. Since its conservation, handling, transportation and possible misuse are beyond the distributors' control, as are unforeseen circumstances, the distributor will deny any responsibility as to the results and/or any damage that might ensue from the products' conservation, handling, transportation or possible misuse. He will only guarantee a constant quality of the product. In case of doubt about or unclarity of the usage prescriptions for new and/or unfamiliar cultures or races, please contact the distributor for more information.

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



WEBLINK to specific data sheet  
on manufacturer's website:

[http://www.certisbelchim.co.uk/pdf/MSDS/  
Metric\\_MSDS.pdf](http://www.certisbelchim.co.uk/pdf/MSDS/Metric_MSDS.pdf)

Alternatively, contact your supplier.