

Proman[®]

Pre-emergence herbicide for the control of annual broad-leaved weeds and annual grasses in potatoes

Suspension concentrate (SC) formulation containing 500 g/L of metobromuron.

IMPORTANT INFORMATION : FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

Crop	Maximum individual dose (L product/ha)	Maximum number of treatments (per crop)	Latest time of application
Potato	4 L/ha	1	Pre-emergence

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER WHICH IS INCONFORMANT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE PRINCIPLES OF GOOD PLANT PROTECTION PRACTICE FOR USING PLANT PROTECTION PRODUCTS

RISK AND SAFETY INFORMATION

PROMAN[®] – A suspension concentrate (SC) formulation containing 500 g/L metobromuron.

UFI: KQ46-80HS-5001-055F

Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure
Very toxic to aquatic life with long lasting effects

Avoid release to the environment

Wear protective gloves/protective clothing
IF SWALLOWED: call a POISON CENTRE or doctor, physician if you feel unwell

IF exposed or concerned: get medical advice/attention
Collect spillage

Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site (except for empty, clean, rinsed containers which can be disposed of as non-hazardous waste)
Contains metobromuron. May produce an allergic reaction.

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

WARNING



PCS No.: 04450

GROUP

5

HERBICIDE

HERBICIDE

Content:

5L

H

Production date / Batch number:
see packaging

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



24-hour emergency number:
+32 14 58 45 45

Distributed by:



Whelehan Crop Protection

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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), SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when handling the concentrate and contaminated surfaces.
- IN CASE OF CONTACT WITH EYES OR SKIN, rinse immediately with plenty of water and consult a specialist.
- IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL; seek medical advice immediately (show the label where possible)
- DO NOT BREATHE spray vapours or mist
- WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the inside of gloves.

- WASH HANDS AND EXPOSED skin before eating, drinking or smoking and after work.
- WHEN USING, DO NOT EAT, DRINK OR SMOKE

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.
- Take care to avoid drift onto neighbouring crops and non-agricultural land.

Storage and Disposal

- KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.
- Store in a safe, dry, frost-free place designated as an agrochemical store
- KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS
- DO NOT re-use empty container for any purpose.

WEEDS CONTROLLED

The following weeds are susceptible to Proman® when applied pre-emergence of the weeds.

Common name of weed	Latin name	Susceptibility at 3 L/ha	Susceptibility at 4 L/ha
Grass weeds			
Annual meadow grass	<i>Poa annua</i>	S	S
Cockspur grass	<i>Echinochloa crus-galli</i>	-	MS
Foxtail spp	<i>Setaria spp</i>	-	MS
Broad-leaved weeds			
Annual mercury	<i>Mercurialis annua</i>	-	MS
Black bindweed	<i>Fallopia convolvulus</i>	MR	MS
Black nightshade	<i>Solanum nigrum</i>	-	MS
Charlock	<i>Sinapis arvensis</i>	S	S
Chickweed	<i>Stellaria media</i>	S	S
Common amaranth	<i>Amaranthus retroflexus</i>	-	MS
Fat hen	<i>Chenopodium album</i>	S	S
Field pansy	<i>Viola arvensis</i>	-	S
Fumitory	<i>Fumaria officinalis</i>	-	MS
Green amaranth	<i>Amaranthus hybridus</i>	-	MS
Groundsel, Common	<i>Senecio vulgaris</i>	S	S
Knotgrass	<i>Polygonum aviculare</i>	MS	S
Scented mayweed	<i>Matricaria chamomilla</i>	S	S
Scentless mayweed	<i>Matricaria inodora</i>	S	S
Shepherd's purse	<i>Capsella-bursa-pastoris</i>	S	S



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.

Proman® is a selective pre-emergence herbicide for the control of annual broad-leaved weeds and annual grasses in potatoes. The product is mainly absorbed by the roots and transported acropetally within the plant after uptake. Proman® acts by inhibiting photosynthesis in susceptible weeds.

Proman® may be applied on all varieties of potatoes.

RESTRICTIONS:

- Some transient crop discolouration may occur under certain climatic conditions where heavy rainfall follows application. This transient crop effect is rapidly outgrown and has no effect on crop yield.
- 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.

TIMING OF APPLICATION

Proman® should be applied following the last ridging and before emergence of the crop and weeds.

DOSE RATE

Apply Proman® at a dose rate of 3 to 4 litres product/ha (see weed susceptibility table for selection of correct dose). The higher dose rate should be used on heavy soils with a high clay content.

Maximum number of treatments per crop: One.

WATER VOLUME AND SPRAY QUALITY

Apply in 200 to 600 L of water per ha using a MEDIUM spray quality as defined by BCPC.

SOIL TYPE

Proman® is recommended for use on all soil types. Optimum efficacy is achieved when applied to moist soil. The efficacy of Proman® may be reduced when applied on soils with a high organic matter content (> 4%).

MIXING AND APPLICATION

Before using Proman®, ensure the spray equipment is clean. Shake the container well before use.

1. Half fill the spray tank with clean water and commence agitation.
2. Add the required amount of product to the spray tank and complete filling, maintaining agitation until spraying is completed.
3. On emptying the product 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 use of container safely.
4. On preparation of spray solution, use as soon as practically possible. Never prepare more spray solution than required.

COMPATIBILITY

Consult Belchim Crop Protection before tank mixing with any adjuvants or other pesticides.

SPRAY TANK CLEAN OUT

All application equipment and contaminated clothing should be thoroughly washed/ 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.

RESISTANCE

Metbromuron belongs to the chemical family of ureas and is classified as an inhibitor of photosynthesis. Spraying the same field repeatedly, with products containing active substances from the same chemical family, or having the same mode of action, can lead to the development of resistance.

To reduce the risk, it is recommended to alternate or to tank mix products containing active substances with complementary activity but from different chemical groups or having different modes of action, not only within one growing season but also throughout the crop rotation.

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 HGCA, CPA, your distributor, crop adviser or product manufacturer.

FOLLOWING CROPS

Following a normal harvest of a treated crop, Brassicas (oilseed rape, turnip, brassica vegetables) and Sugar beet may be sown, providing the soil has been ploughed. No restriction apply when other crops are sown.

REPLACEMENT CROPS

In the event of crop failure for any reason, maize, beans, peas and carrots may be sown after ploughing. It is not recommended to sow Brassicas (oilseed rape, turnip, brassica vegetables) or sugar beet as a replacement crop after crop failure. Potatoes can be re-planted after minimal cultivation.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable, but as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality of fitness for any purpose of our goods are excluded, and no responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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 :

www.certisbelchim.co.uk/pdf/MSDS/Proman_MSDS.pdf

Alternatively, contact your supplier.

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Knotgrass	<i>Polygonum aviculare</i>	MS	S
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