

## BOUDHA® - MAPP 19537

Contains **250 g/kg metsulfuron-methyl** and **250 g/kg tribenuron-methyl**  
Formulation: water dispersible granule (WG)



### WARNING

**H410: VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS**

P273: Avoid release to the environment.  
P391: Collect spillage.  
P501: 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.

Contains tribenuron-methyl. May produce an allergic reaction.

**EUH 401: To avoid risks to human health and the environment, comply with the instructions for use.**

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

#### Authorization Holder:

Rotam Agrochemical Europe Ltd  
Hamilton House  
Mabledon Place  
London WC1H 9BB - UK  
Technical Enquiries: 0800 078 9649

#### Marketing Company:

Rotam Europe Ltd  
Hamilton House  
Mabledon Place  
London WC1H 9BB - UK

**Emergency Information (CARECHEM):** +44 1235 239 670 (24 hour)

*Batch number and date of manufacture: see packaging*

# Net content: 200g

# BOUDHA®

HERBICIDE

MAPP 19537

GROUP 2 HERBICIDE

A water dispersible granule formulation containing  
**250 g/kg metsulfuron-methyl** and **250 g/kg tribenuron-methyl**  
for spring control of broad-leaved weeds in barley, oats, triticale, wheat  
and winter rye.

### IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

<b>Crops:</b>	Barley, oats, rye (winter), triticale, wheat
<b>Maximum individual dose:</b>	20 g product per hectare
<b>Maximum number of treatments:</b>	One per crop
<b>Latest time of application:</b>	Before flag leaf sheath extending stage (GS 39)

**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.**

See attached leaflet for Directions for Use and Safety Precautions

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*This leaflet/booklet is part of the approved label*

## **SAFETY PRECAUTIONS**

### **Operator Protection:**

WASH CONCENTRATE from skin or eyes immediately.  
WASH HANDS AND EXPOSED SKIN before eating and drinking and after work.  
DO NOT BREATHE SPRAY.

### **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.  
Extreme care must be taken to avoid spray drift on to non-crop plants outside of the target area.

### **Storage and Disposal:**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place.  
EMPTY CONTAINER COMPLETELY and dispose of safely.

## **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**

BOUDHA must not be applied to any crop suffering from stress as a result of drought, waterlogging, low temperatures, pest or disease attack, nutrient or lime deficiency or other factors reducing crop growth.

Do not use BOUDHA on cereal crops undersown with grasses, clover or other legumes or any broad-leaved crop.

Due to the high level of activity of the herbicide, special care must be taken to avoid damage by drift onto broad-leaved plants outside the target area, or onto ponds, waterways or ditches. Thorough cleansing of equipment is also very important - see below.

Contract agents should be consulted before using on crops grown for seed.

### **Weed control**

BOUDHA contains metsulfuron-methyl and tribenuron-methyl, two sulfonylurea (ALS inhibitors) herbicides, which have both foliar and root activity against a wide range of broad-leaved weeds.

BOUDHA is readily translocated within the weed plant, inhibiting growth within hours of treatment, thus preventing competition with the crop. Many weeds show marked colour changes as they die back after treatment, but the time taken for these symptoms to appear and death to occur may vary according to weed species and weather conditions. The full effect of the treatment may not be apparent for up to four weeks. Plants not completely killed are often severely stunted and much less competitive with the crop.

BOUDHA is most effective when applied to small, actively growing weeds. As larger weeds may become less susceptible, it is important to note the size of each weed species so that application is made at the optimum time. Good spray cover of the weeds must be obtained. Weed control may be reduced when soil conditions are very dry. Residual effects may be reduced by heavy rain. The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions.

### **Weed resistance**

This product contains tribenuron-methyl and metsulfuron-methyl, which are ALS inhibitors, also classified by the Herbicide Resistance Action Committee as 'Group 2'. When herbicides with the same mode of action are used repeatedly over several years in the same field, selection of resistant biotypes can take place. These can propagate and may become dominating. A weed species is considered resistant to a herbicide if it survives a correctly applied treatment at the recommended dose. Development of resistance with a weed species can be avoided or delayed by alternating (or tank mixing) with suitable products having a different mode of action. A strategy for preventing and managing resistance should be adopted. The Weed Resistance Action Group has produced guidelines and copies are available from the AHDB, CPA, your distributor, crop advisor or product manufacturer.

## Susceptible Weeds

The susceptibility rating of weeds in the following table refer to good spray cover and good growing conditions. The weed control claims relate to control at 'six true leaf stage' of the weeds. Weeds germinating after treatment may not be adequately controlled.

Weed species		Level of susceptibility at 6TL
Common name	Scientific name	
Black bindweed	<i>Polygonum convolvulus</i>	MS
Cleavers	<i>Galium aparine</i>	R
Mayweeds	<i>Matricaria sp.</i>	S
Common chickweed	<i>Stellaria media</i>	S
Common field speedwell	<i>Veronica persica</i>	MS
Fat-hen	<i>Chenopodium album</i>	R
Corn poppy	<i>Papaver rhoeas</i>	S
Field penny-cress	<i>Thlaspi arvense</i>	-
Field forget-me-not	<i>Myosotis arvensis</i>	MS
Field pansy	<i>Viola arvensis</i>	MS
Flixweed	<i>Descurainia sophia</i>	-
Henbit deadnettle	<i>Lamium amplexicaule</i>	MS
Knotgrass	<i>Polygonum aviculare</i>	MS
Red deadnettle	<i>Lamium purpureum</i>	S
Volunteer OSR	<i>Brassica napus</i>	S
Shepherd's purse	<i>Capsella bursa-pastoris</i>	S
Speedwell, ivy-leaved	<i>Veronica hederifolia</i>	R

S = Susceptible; MS = Moderately susceptible, R = resistant

## Soil and Weather

BOUDHA can be used on all soil types. Weed control may be reduced when conditions are very dry.

## Volume and application

BEFORE USING BOUDHA, SPRAYING EQUIPMENT MUST BE CLEAN AND FREE FROM CONTAMINATION WITH OTHER PESTICIDES.

Apply in 100-400 litres water per hectare. For application in 100 litres of water per hectare use suitable ground equipment to give good spray cover of the weeds. Use a conventional field crop sprayer at a pressure of 2-3 bars and apply as a MEDIUM spray (as defined by BCPC). When crops are thick or weed growth dense, use up to 400 litres of water per hectare. When applying BOUDHA, care should be taken not to overlap spray swaths.

## Mixing

Quarter fill the spray tank with clean water, start the agitation and add the required quantity of BOUDHA directly to the tank without prior creaming. Continue agitation while topping up the tank and while spraying.

## Compatibility

In any tank-mix add BOUDHA to the tank first and ensure it is fully dispersed before adding the partner product. Do not allow BOUDHA to come into contact with undiluted pesticide concentrate. Products should only be tank-mixed if each product can be applied within the label recommendations for its use. For further information contact your Rotam distributor or view [www.rotam.co.uk](http://www.rotam.co.uk).

'Joint application' with any one of the following other sulfonylurea and 'ALS inhibiting' herbicides may be applied to a crop treated with BOUDHA. 'Joint application' is the use of BOUDHA in tank mixture or sequence with one of the products listed in the table below. Note the specifications for following crops:

	FOLLOWING CROPS		
	Cereals	Oilseed Rape	Field Beans
Atlantis OD	Yes	Yes	Yes
Hatra	Yes	Yes	Yes
Horus	Yes	Yes	Yes
Niantic	Yes	Yes	Yes
Cintac	Yes	Yes	Yes
Othello	Yes	Yes	Yes
Broadway Star <sup>1</sup>	Yes	Yes	Yes
Pallo <sup>1</sup>	Yes	Yes	Yes
Capri Duo <sup>1</sup>	Yes	Yes	Yes
Gyga <sup>1</sup>	Yes	Yes	Yes
Lector	Yes	Yes	Yes
Upton	Yes	Yes	Yes
Dakota	Yes	Yes	Yes
Galaxy	Yes	Yes	Yes
GF-184	Yes	Yes	Yes
Hunter	Yes	Yes	Yes
Slalom	Yes	Yes	Yes
Spitfire	Yes	Yes	Yes
Starane XL	Yes	Yes	Yes

<sup>1</sup> Use in sequence only

Requirement and restrictions on the above mentioned product labels must be observed when using in tank-mixture or sequence.

Only cereals, oilseed rape or field beans may be sown in the same calendar year to succeed a cereal crop treated with BOUDHA following the above joint applications.

Before sowing either oilseed rape or field beans, soil should be cultivated to a depth of 20 cm. No special requirements for cultivation are needed where cereals are to be sown as the following crop.

Vigour reductions may be seen in following crops of oilseed rape and field beans under certain circumstances e.g. dry summer. Any effects should be outgrown and should not result in any yield loss.

When using tank-mixtures take care not to overlap spray swaths.

Do not apply BOUDHA to any cereal crop in sequence or tank-mixture with any product containing any other sulfonylurea herbicide product.

## **CROPS**

### **CEREALS**

#### **Crop Safety**

BOUDHA can be used on all varieties of barley, oats, triticale, wheat and winter rye between the growth stages given below.

#### **Timing**

BOUDHA must only be applied after 1st of March from the three-leaf stage up to the flag leaf sheath extension stage of crop growth (GS39). BOUDHA should not be applied within 7 days of rolling the crop. Do not apply BOUDHA more than once to any cereal crop.

#### **Dose**

Apply BOUDHA at 20g of formulated product per hectare.

#### **Following crops**

Only cereals, oilseed rape, field beans or grass may be sown in the same calendar year as harvest of a cereal crop treated with BOUDHA. Where joint application with other sulfonylurea and 'ALS-inhibiting' herbicides is required, recommendations in the compatibility section must be followed. In the spring, following cereal harvest, there is no restriction on crop establishment. Sugar beet may be grown in the spring, following harvest of a preceding cereal crop which has received one of the above sequences.

#### **Replacement crops**

In case of crop failure for any reason, sow only winter wheat within three months of application of BOUDHA. Before sowing, soil should be ploughed and cultivated to a depth of at least 15 cm.

## **WARNINGS**

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

SPRAYING EQUIPMENT SHOULD NOT BE DRAINED OR FLUSHED ONTO LAND PLANTED WITH OR INTENDED FOR PLANTING WITH TREES OR CROPS OTHER THAN CEREALS.

## **SPRAY TANK CLEAN-OUT**

POOR CLEANOUT PRACTICES AND INSUFFICIENT WATER VOLUMES USED FOR THE RINSE PROCEDURE MAY RESULT IN INADEQUATE REMOVAL OF PRODUCT DEPOSITS. SUBSEQUENT USE OF APPLICATION EQUIPMENT IN THESE CIRCUMSTANCES MAY RESULT IN DAMAGE TO NON-CEREAL CROPS.

TO AVOID SUBSEQUENT DAMAGE TO CROPS OTHER THAN CEREALS, IMMEDIATELY AFTER SPRAYING BOUDHATHOROUGHLY CLEAN ALL SPRAY EQUIPMENT, INCLUDING INSIDE AND OUTSIDE OF LID, USING A PROPRIETARY SPRAYER CLEANER FOR USE WITH SULFONYLUREAS ACCORDING TO THE FOLLOWING PROCEDURE:

1. Immediately after spraying, drain tank completely. Wash any contamination from the outside of the sprayer with clean water.
2. Rinse the inside of the tank with clean water and flush at least one tenth of the spray tank volume through the boom and hoses. Drain tank completely.
3. Half-fill the tank with clean water and add the correct quantity of a proprietary sprayer cleaner for use with sulfonylureas. Agitate and then flush the boom and hoses with the solution. Top up completely with water and allow to stand for 15 minutes with agitation. Again flush the booms and hoses and drain tank completely (if it is not possible to drain the tank completely, repeat step 3 before continuing).
4. Remove nozzles and filters and soak in a bucket containing a proprietary sprayer cleaner for use with sulfonylureas at the same concentration as that used for the sprayer.
5. Rinse tank again with clean water and flush at least one tenth of the tank volume through the booms and hoses. Drain tank completely.
6. For disposal of washings, follow the Green Code: 'Code of Practice for the Safe Use of Pesticides on Farms and Holdings' (MAFF Publications 1998). Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

## **GENERAL NOTES**

Consult label tank cleanup procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

## **COMPANY ADVISORY INFORMATION**

This section is not part of the Product Label under Plant Protection Products Regulations. It provides additional advice on product use at the discretion of Rotam Agrochemical Europe Ltd.

## **TERMS AND CONDITIONS OF SUPPLY, SALE AND USE**

Many factors can affect or influence the activity of this product, including, but not limited to: weather and soil conditions, crop variety, treatment timing, water volume, application rates, spraying techniques, crop rotation, regional factors and the occurrence and development of weeds resistant to the active ingredients. Under certain circumstances, changes in activity or crop damage can occur. The manufacturer or supplier is unable to accept any liability in these circumstances. All goods supplied by us are of a high grade and we believe them to be suitable for the purpose for which we expressly supply them: but as we cannot exercise any control over their mixing, use or application which may affect the performance of the goods all conditions and warranties statutory or otherwise as to the quality or fitness for any

purpose of our goods are excluded and no responsibility will be accepted by us for any damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff, our agents or the re-sellers of the product whether or not they supervise or assist in the use of such goods.

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