

**BOLT®**

Product registration Number MAPP 17363

BOLT® is a water dispersible granule (WG) formulation containing 600 g/kg (60% w/w) Tribenuron-methyl and 200 g/kg (20% w/w) Florasulam. For use as a post emergence herbicide for the control of cleavers and other broadleaved weeds in winter wheat, barley, oats, rye and triticale and spring barley and oats.

**IMPORTANT INFORMATION - FOR USE ONLY AS A HERBICIDE**

Product identifier: Tribenuron-methyl 600 g/kg + Florasulam 200 g/kg WG

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

Contains Tribenuron-methyl. May produce an allergic reaction. 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 containers which can be disposed of as non-hazardous waste. 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. **To avoid risks to human health and the environment comply with the instructions for use.**

**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.**



10035329

NET CONTENTS 100 g

SHAKE WELL BEFORE USE

PROTECT FROM FROST

Batch number / date of manufacture: see bottle Neck

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This label is compliant  
with the CPA Voluntary  
Initiative Guidance



Crop	Maximum Individual Dose	Max Total Dose	Latest time of Application
Winter wheat, barley, leaf oats, rye and triticale	25 gms/ha	25 gms/ha	Up to and including flag ligule just visible stage. (GS 39 inclusive) - (see Other specific restriction 1)
Spring barley and oats	25 gms/ha	25 gms/ha	Up to and including 2 <sup>nd</sup> node etectable stage.(GS 32 inclusive) - (see Other specific restriction 1)

**Buffer zone distance:** 5 metres (aquatic) (See Environmental Protection and  
5 metres (non target plants) (restrictions)

#### **Other Specific Restriction**

Applications must not be made before 15 March in the year of harvest.

The maximum total dose of florasulam applied to a cereal crop must not exceed 7.5 g/ha.

The maximum total dose of tribenuron applied to a cereal crop must not exceed 15 g/ha.

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## **SAFETY PRECAUTIONS**

### **Operator protection**

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate and when handling contaminated surfaces.

### **Environmental protection**

Crops/situations with 5m buffer zone:

Since there is a risk to aquatic life from use, direct spray from horizontal boom sprayers must not be allowed to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of the top of a ditch which is dry at the time of application. Spray must be aimed away from water.

Spray from hand-held sprayers must not be allowed to fall within 1m of the top of the bank of a static or flowing waterbody. Spray must be aimed away from water.

Buffer zones must be measured in accordance with the guidance set out in the booklet 'Local Environment Risk Assessment for Pesticides - Horizontal Boom Sprayers' available from HSE Chemicals Regulation Directorate's website and any amendments made to it.

The results of the LERAP must be recorded in written form and must be available for a period of three years for inspection to any person entitled to exercise enforcement powers under or in connection with the Plant Protection Products Regulations 2011 or the Plant Protection Prod-

ucts (Sustainable Use) Regulations 2012. (An electronic record will satisfy the requirement for a written record, providing it is similarly available for inspection and can be copied).

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

### **Storage and disposal**

STORE IN THE ORIGINAL CONTAINER in a cool, dry and well-ventilated place.

PROTECT from excessive heat and cold.

DO NOT STORE NEAR FOOD, DRINK OR ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN

RINSE CONTAINER THOROUGHLY using an integrated pressure washer or by manually rinsing three times. Empty washings into spray tank and dispose of safely.

### **DIRECTIONS FOR USE**

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

#### **Crops**

BOLT® can be applied in the spring to all varieties of winter wheat, barley, oats, rye and triticale and spring barley and oats.

### Notes

Do not spray when crops are under stress from cold, drought, pest damage, nutrient deficiency etc.

Do not roll or harrow 7 days before or after application

BOLT® is mainly absorbed by the leaves of the weeds and as such can be applied on all soil types.

### Restrictions/Warnings

#### **Crop Failure**

In the event of crop failure in the spring after an application of BOLT® only cereals may be planted.

#### **Following Crops**

Only the following crops can be sown in the same year as a crop treated with BOLT® is harvested: cereals, oilseed rape, field beans and grass.

Vigour reductions may be seen in following crops of oilseed rape after a dry summer. This will be outgrown and will not result in yield loss.

Only the following crops can be sown in the calendar year after treatment with BOLT®: cereals, oilseed rape, field beans, grass, linseed, peas, sugar beet, potatoes, maize, clover (for use in grass/clover mixtures), carrots and vegetable brassicas as transplants.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

### **Water Volume**

Apply BOLT® in 100-300 l/ha of water. The lower volume must only be used in open crops on small weeds.

### **Mixing and Application**

Half fill the spray tank with clean water and add the required amount of BOLT®. Add the remainder of the water and continue agitation until spraying is completed.

When tank mixes are to be used, and unless directed otherwise, the preferred order of addition of products to the spray tank is as follows: water, dispersible granules, wettable powders, suspension concentrates, solution concentrate. Each product should be added separately to a half filled spray tank and fully dispersed before the addition of the next product

Apply BOLT® as a MEDIUM spray as defined by the BCPC system.

### **Joint Application**

A joint application is the use of a product in tank mixture or sequence with another product.

**IMPORTANT NOTE:** joint applications should only be made within the label recommendations of every product in the application. Only one other product with an ALS inhibitor mode of action may be applied to a cereal crop treated with BOLT®. However, a further application of BOLT® or another product containing florasulam may also be made providing the maximum total dose of florasulam is not exceeded. BOLT® may be applied in joint application to the same cereal crop with one of the following ALS products.

<b>Product name</b>	<b>MAPP no.</b>	<b>Active ingredient</b>
Lorate Jubilee SX Accurate	12743 12203 13224	Metsulfuron-methyl
Pelican Delta	14312	Metsulfuron-methyl + diflufenican
Thor Nuance	14240 15239 14813	Tribenuron-methyl (15 g max TBM)
Traton SX Biplay SX Ally Max SX	14837 14836 14835	Metsulfuron-methyl + Tribenuron-methyl (15 g max TBM)
Boxer Barton WG	09819 13284	Florasulam (7.5 g max FOM)
Pinnacle	12285	Thifensulfuron-methyl

Calibre SX	15032	Thifensulfuron-methyl + Tribenuron-methyl
Inka SX	13601	
Ratio SX	12601	
GEX 353	15114	Fluroxypyr + Thifensulfuron-methyl + Tribenuron-methyl
Galaxy	13152	Clopyralid + florasulam + fluroxypyr (7.5 g max FOM)
Hunter	12836	Florasulam + fluroxypyr (7.5 g max FOM)
Hiker	11451	
Starane Vantage	10922	
GF-184	10878	
Starane XL	10921	
Starane Gold	10879	

The maximum total dose of florasulam applied to a cereal crop must not exceed 7.5 g/ha. The maximum total dose of tribenuron applied to a cereal crop must not exceed 15 g/ha.

### Resistance

Tribenuron-methyl and florasulam are both systemic selective herbicide taken up by the roots and foliage and translocated to the apex of the plant.



Florasulam is an ALS inhibitor. Herbicide Resistant Weeds Classification (HRAC), B.  
Tribenuron-methyl is an ALS inhibitor. Herbicide Resistant Weeds Classification (HRAC), B.

Avoid using herbicides with a single mode of action, such as ALS herbicides, in the same fields over a number of years. Growers should apply products containing herbicides with different modes of action or use sequences or tank mixes where two or more components are active against the target weeds.

#### **Spring Application - Cereals**

##### **Winter wheat, barley, oats, rye and triticale**

BOLT® can be applied to Winter wheat, barley, oats, rye and triticale in the spring once the crop has reached 3 leaves (GS 13) up to and including flag leaf ligule just visible stage (GS 39 inclusive).

##### **Spring, barley and oats**

BOLT® can be applied to Spring barley and oats in the spring once the crop has reached 3 leaves (GS 13) up to and including the second node detectable stage (GS 32 inclusive).

##### **Rate of application**

One application of up to 25 gms/ha of BOLT® will control all susceptible emerged weeds.

**Weeds Controlled**

BOLT® is most effective when applied to small, actively growing weeds. Larger weeds may be less susceptible. For optimum performance it is important to check the size of weeds before application.

<b>Rate of Use</b>	<b>20 gms/ha</b>	<b>25 gms/ha</b>	<b>Weed Size Controlled</b>
Black bindweed	-	MS	Plants up to 2 expanded true leaves
Charlock	S	S	Plant up to 15 cm across/high
Cleavers	-	S	200 mm
Common chickweed	S	S	Flowering
Common field speedwell	-	R	Plants up to 2 expanded true leaves
Common mouse-ear	-	R	Plants up to 2 expanded true leaves
Common poppy	-	S	Plants up to 6 expanded true leaves
Cornflower	-	S	Plants up to 6 expanded true leaves
Fat hen	-	MS	Plants up to 6 expanded true leaves

Field pansy	-	MS	Plants up to 2 expanded true leaves
Field penny cress	S	S	Plant up to 15 cm across/high
Fools parsley	-	S	Plants up to 3 expanded true leaves
Forget me not	-	S	Plants up to 6 expanded true leaves
Fumitory	-	R	Plants up to 2 expanded true leaves
Hairy cress	-	MS	Plants up to 6 expanded true leaves
Hemp nettle	-	S	Plants up to 6 expanded true leaves
Henbit dead nettle	-	MR	Plants up to 6 expanded true leaves
Ivy leaved speedwell	-	R	Plants up to 2 expanded true leaves
Knotgrass	-	S	Plants up to 6 expanded true leaves
Pineapple mayweed	S	S	Flower buds visible
Read dead nettle	-	MR	Plants up to 6 expanded true leaves
Redshank	-	MS	Plants up to 6 expanded true leaves

Scentless mayweed	S	S	Flower buds visible
Shepherd's purse	S	S	100 mm
Volunteer oilseed rape	S	S	Before flower buds visible

S = Susceptible, MS = Moderately Susceptible, MR = Moderately Resistant, R = Resistant.

### Tank cleaning procedure

To avoid subsequent injury to crops other than cereals all spraying equipment must be thoroughly cleaned both inside and outside All Clear Extra spray cleaner as follows:

1. Immediately after spraying drain the tank completely. Any contamination on the outside of the spraying equipment should be removed by washing with clean water.
2. Rinse inside the tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
3. Half fill the tank with clean water and add the ammonium based cleaner at the recommended rate. Agitate and then briefly flush through the booms and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the booms and hoses and drain tank completely.
4. Nozzles and filters should be removed and cleaned separately with the ammonium based cleaning solution containing 50 ml of the ammonium based cleaner per 10 litres of water.

5. Rinse the tank with clean water and flush through the booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
6. For disposal of washings follow the Code of Practice for Using Plant Protection Products. Do not spray on to sensitive crops or land intended for cropping with sensitive crops.

**Note:** If it is not possible to drain the tank completely, step 3 must be repeated before going on to step 4.

BOLT® is a registered trademark

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

***<http://www.headland-ag.co.uk/product-download.asp?id=389>***

*Alternatively, contact your supplier.*

