

Product	Label Contents	Dimensions (WxH)
FLYWHEEL (GB)	1 L - Booklet	240 x 149 mm

FLYWHEEL

HERBICIDE

GROUP 2 HERBICIDE



For the control of a range of broad-leaved weeds in cereal crops.
See detailed label text for specific approval information.

WINTER AND SPRING WHEAT, BARLEY, OATS

MAPP 21076

50 g/l (4.85% w/w) Florasulam
Suspension Concentrate (SC)

NET CONTENTS:

1L

FOR USE ONLY AS A
PROFESSIONAL HERBICIDE

lifescientific 
FIRST TO MARKET

FLYWHEEL - MAPP 21076

CONTAINS 50 G/L (4.85% W/W) FLORASULAM AS A SUSPENSION CONCENTRATE FORMULATION.
FLYWHEEL IS A SELECTIVE POST-EMERGENCE HERBICIDE FOR THE CONTROL OF CLEAVERS AND SOME
OTHER BROAD-LEAVED WEEDS IN WINTER AND SPRING CROPS OF WHEAT, BARLEY AND OATS.



WARNING

VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.
KEEP OUT OF REACH OF CHILDREN.

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.

CONTAINS 1,2-BENZISOTHAZOL-3(2H)-ONE. MAY PRODUCE AN
ALLERGIC REACTION.

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.

IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

CROPS/SITUATIONS:	MAXIMUM INDIVIDUAL DOSE	MAXIMUM TOTAL DOSE	LATEST TIME OF APPLICATION
Wheat (winter and spring), barley (winter and spring) and oats (winter and spring)	0.15 litres Product/ha	0.15 litres Product/ ha/crop	Up to and including flag leaf ligule just visible stage (GS 39 inclusive)

Other specific restrictions

- For autumn planted crops, a maximum total dose of 3.75g of florasulam must be observed for applications made between crop emergence in the year of planting and February 1st in the year of harvest.
- The total amount of florasulam applied to a cereal crop must not exceed 7.5g a.s./ha.

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.

AUTHORISATION HOLDER AND MARKETING COMPANY: Life Scientific Limited,
Block 4, Belfield Office Park, Beech Hill Road, Dublin 4, Ireland. Tel: +353 1 2832024

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH
REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK.

FOR 24 HOUR EMERGENCY INFORMATION CONTACT NHS 111

PROTECT FROM FROST

MADE IN EU

SHAKE WELL BEFORE USE

BATCH NO. SEE PACKAGING



170110423804_V2

PEEL BACK FOR DIRECTIONS FOR USE LEAFLET



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SAFETY PRECAUTIONS

Operator Protection

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.

Storage and Disposal

DO NOT REUSE CONTAINER FOR ANY PURPOSE.
 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.
 WASH OUT CONTAINER THOROUGHLY, emptying washings into spray tank and dispose of safely.
 PROTECT FROM FROST.

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.

FLYWHEEL can be used to control the listed broad-leaved weeds in all varieties of winter and spring wheat, barley and oats but should not be used on Durum wheat. Weed control is mainly achieved by uptake through the treated leaves and so it may be used on all soil types.

RESTRICTIONS

Do not apply FLYWHEEL to crops suffering from stress caused by cold, drought, nutrient deficiency, pest or disease attack.
 Do not roll or harrow the crop for at least 7 days either before or after the application.
 Take EXTREME care to avoid drift on to non-target plants outside the target area.

RESISTANCE

FLYWHEEL contains florasulam which is an ALS inhibitor, also classified as HRAC/WWS mode of action code 2.
 Apply FLYWHEEL as soon as possible after the emergence of the weeds.
 Do not use FLYWHEEL as a stand-alone treatment for Common chickweed.
 Only use in a tank-mixture or sequence with herbicides with non-ALS modes of action for the control of Common chickweed.
 Do not apply to weeds where target site resistance to ALS inhibiting herbicides is confirmed.
 Always follow the recommendations of the Weed Resistance Action Group (WRAG) with respect to the integration of chemical and cultural control measures.

DOSE RATE AND TIMING

FLYWHEEL can be applied once the cereal crop has reached the 3 leaf stage (Zadoks GS 13) and all treatments should be completed before it exceeds the flag leaf ligule just visible stage (Zadoks GS 39).
 The tables below list the maximum susceptible growth stage for each dose. FLYWHEEL is most active on small, actively growing weeds. As weeds get larger they may become less susceptible.

Autumn Application: An application of 0.075 or 0.05 L/ha FLYWHEEL according to the size of the weeds present will control the following weeds provided that they are emerged at application.

SPECIES	Application dose	
	0.075 L/ha	0.05 L/ha
Cleavers (MS* only)	2.5 cm	2.5 cm
Common chickweed	5.0 cm	3.0 cm
Scented mayweed	5.0 cm	3.0 cm
Scentless mayweed	3.0 cm	3.0 cm
Volunteer oilseed rape	8.0 cm	6.0 cm

*MS = moderately susceptible

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Spring Application: Apply as a single application of 0.15 L/ha or as a split application provided the total dose applied does not exceed 0.15 L/ha. The single application of 0.15 L/ha will control all the weeds listed as susceptible up to the growth stage specified but the split application can be useful where an extended period of weed germination is expected. Remember to check the weed growth stage immediately before application.

SPECIES	Application dose		
	0.15 L/ha	0.1 L/ha	0.05 L/ha
Cleavers	Up to 50 cm	20 cm	–
Common chickweed	–	Up to flowering	6 true leaves
Hedge mustard	–	10 cm	–
Scented mayweed	–	Flower buds visible	Rosette stage
Scentless mayweed	–	Flower buds visible	Rosette stage
Shepherd's-purse	–	10 cm	–
Volunteer oilseed rape	–	Before flower buds visible	4 true leaves
Wild radish (Runch)	–	10 cm	–

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 FLYWHEEL.

FLYWHEEL may be applied in joint application to the same cereal crop with one of the following ALS products:

Alias SX (M18668)	Ergon (M19580/20656)	Lorate (M18687)
Ally Max SX (M18768/20682)	Finish SX (M18762)	Nautius (M 18838/20825)
Avro SX (M18771)	Galaxy (M18952)	NIANTIC® (M18217)
Barton WG (M13284)	Hamlet (M17370)	Othello (M16149)
Biplay SX (M18800/20665)	Harmony M SX (M18824)	Pinnacle (M18781)
Boudha (M19537/20822)	Hatra (M16190)	Presite SX (M18776)
Broadway Star (M18273)	Hiatus (M 16059/20824)	Ratio SX (M18786)
Calibre SX (M15032)	Horus (M16216)	Savvy Premium (M18461/20642)
Chimera SX (M18823)	Hunter (M19776)	Slalom (M19777)
CINTAC® (M21204)	Inka SX (M18760)	Spitfire (M19945)
Concert SX (M18806)	Jubilee SX (M18686)	Starane XL (M19775)
Dakota (M19179)	LAYA (M19016)	Traton SX (M18793/20674)

Apart from these specific joint applications FLYWHEEL must NOT be applied with any other product containing an ALS-inhibitor, for example amidosulfuron.

However, a further application of FLYWHEEL or another product containing florasulam may also be made **providing the maximum total dose of florasulam is not exceeded**¹.

¹ The maximum total dose of florasulam applied to the crop must not exceed 75 g. For autumn planted crops a maximum total dose of 3.75 g of florasulam must be observed for applications made between crop emergence in the year of planting and 1st February in the year of harvest.

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APPLICATION

FLYWHEEL should be applied through tractor-mounted hydraulic sprayers or through knapsack sprayers that have been set up according to the sprayer manufacturer's instructions and are in good working order. Do not apply via CDA sprayers. The application volume should be within the range 150 – 250 litres per hectare with the lower end of this range only appropriate to small weeds in very open crops. Spray quality should be as a MEDIUM spray as defined by BCPC.

MIXING

Half fill the spray tank with clean water and then add the required amount of FLYWHEEL. Commence agitation of the tank and complete the filling, ensuring thorough mixing of FLYWHEEL with the water. Continue agitation until application is complete.

TANK-MIXTURES

Where tank-mixes are 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 (flowables), emulsifiable concentrates, solution concentrates. Each product should be added to the half-full sprayer and be fully dispersed before the addition of the next product.

TANK CLEANING

Since FLYWHEEL is an ALS herbicide, it is essential to ensure thorough tank decontamination before using the sprayer for application to other crops. The sprayer and all application equipment should be thoroughly washed inside and out with a solution of ALL CLEAR² EXTRA.

1. Immediately after application is complete, drain the tank completely and remove any external deposits by washing with clean water.
2. Rinse the inside of the spray tank and flush through booms and hoses with at least one tenth of the spray tank volume. Drain tank completely.
3. Half-fill the tank with clean water and add the recommended rate of All Clear Extra. Agitate thoroughly and flush through the booms and hoses. Fill the tank completely and allow to stand for 15 minutes with the agitation running. Flush the booms and hoses and drain completely.
4. Remove any filters, screens and nozzle tips and clean separately using a solution of All Clear Extra.
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. Check for decontamination procedures on the labels of any partner products used and also follow these instructions where appropriate.
7. Dispose of the washings according to the recommendations given in the 'Code of Practice for Using Plant Protection Products'. Do not spray out on to a sensitive crop or land where a sensitive crop is to be planted.

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

FOLLOWING CROPS

After normal harvest of a crop treated with FLYWHEEL cereals, field beans, grass, vegetable brassica transplants or oilseed rape may be planted in the same year. Where oilseed rape is sown after a dry summer that inhibits the breakdown of herbicide residues some transient vigour reductions may be seen but these do not result in yield reductions.

Crops that can be planted in the calendar year following treatment with FLYWHEEL are: cereals, field beans, grass, vegetable brassica transplants and oilseed rape plus carrots, sugar beet, linseed, maize, peas, potatoes and clover for use in grass/clover mixtures.

In the event of crop failure after treatment with FLYWHEEL only spring barley, spring wheat, spring oats, maize or ryegrass should be sown.

COMPANY ADVISORY INFORMATION

This section of the label is not part of the (EC) 1107/2009 Regulation and provides additional advice on product use at the discretion of the applicant.

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 or 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.

CINTAC[®] and NIANTIC[®] are registered Trademarks of Life Scientific Ltd.

All other brands listed are Trademarks of other manufacturers where proprietary rights may exist.

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