

FMC

Fundatis®

Herbicide

powered by
ISOFLEX® active

GROUP 13.12 HERBICIDE

MAPP No. 21338

A mixed formulation of suspension concentrate (SC) and capsule suspension (CS). The resulting formulation type is a ZC and is a stable aqueous suspension of microcapsules and solid fine particles.

Fundatis® herbicide contains 200 g/L bixlozone (trade marked as ISOFLEX® active) and 125 g/L beflubutamid.

It can be used pre-emergence for the control of annual broadleaved and grass weeds in winter wheat and winter barley or early post-emergence in winter wheat for the control of annual broadleaved and grass weeds.

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

Approval Holder and Marketing Company:

FMC Agro Limited, Rectors Lane Pentre, Flintshire, CH5 2DH.

Tel: 01244 537370.

Email: fmc-agro.uk@fmc.com.

Website: www.fmc-agro.co.uk.

Technical Helpline: 01423 205011

Emergency No.s - Medical Incidents Involving Crop

Protection Products: England & Wales: 111, Scotland: 08454 24 24 24, Northern Ireland: Local GP or Pharmacist, Republic of Ireland: 01 837 9964.

Healthcare professionals seeking poisons information:

www.toxbase.org.

Emergency No.s - Transportation, Warehousing & After

Sale Incidents: CHEMTREC help centre

Dialling from the UK and NI: 0870 820 0418,

Dialling from Ireland: 01 901 4670

Contents: **5L e**

RISK AND SAFETY INFORMATION

Fundatis® Herbicide
Contains Cloquintocet-mexyl
1,2-benzisothiazol-3(2H)-one

WARNING

May cause an allergic skin reaction

Causes serious eye irritation

Very Toxic to aquatic life with long lasting effects

Avoid breathing mist or vapours

Wear protective gloves/protective clothing/eye protection/face protection

If skin irritation or rash occurs get medical advice/attention

If eye irritation persists: Get medical advice/attention

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



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	FILL IN		DIMENSIONS (WXH)
Country	GREAT BRITAIN AND NORTHERN IRELAND	Single label	
Product SKU	11016242	Base for Booklet	
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SAFETY PRECAUTIONS

Operator Protection

- Users must use appropriate engineering control of operator exposure where reasonably practicable. They must also use the following personal protective equipment.
 - Personal protective equipment must be worn when handling and applying the product in accordance with the guidelines given in the 'Code of Practice for Using Plant Protection Products Annex E - Guidance on using personal protective equipment.
 - WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.
- However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection.

Environmental Protection

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

- Crops/situations with 5m buffer zone:

Since there is a risk to aquatic life from use, users not applying the statutory buffer zone must either themselves carry out or ensure that someone else has carried out a Local Environment Risk Assessment for Pesticides (LERAP) on their behalf before each spraying operation from a horizontal boom sprayer. Users must not allow direct spray from horizontal boom sprayers to fall within 5m of the top of the bank of any static or flowing waterbody or within 1m of a ditch which is dry at the time of application (these distances to be measured as set out in the guidance documents available from HSE Chemical Regulation Division's website and any amendments that are made to it) unless:

- The LERAP indicates that a narrower buffer zone will be sufficient; and
- Any measures indicated by the LERAP as justifying the narrower buffer zone are complied with in full and in accordance with any conditions applicable to them. Spray must be aimed away from water.

- 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 Products (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).
- Detailed guidance on LERAPs and how to conduct a LERAP are contained in the guidance documents available from HSE Chemicals Regulation Division's website. All LERAPs must be carried out in accordance with this Guidance and any amendments that are made to it.
- To protect non target insects/arthropods respect an unsprayed buffer zone of 5 m to non-crop land.
- Extreme care should be taken to avoid damage by drift onto plants outside the target area.

Other Specific Restrictions

This product must not be applied via hand-held equipment.

Storage and Disposal

Keep out of reach of children.

Do not re-use container for any purpose and dispose of safely.

Store the product in its original container only. Do not contaminate water, other pesticides,

fertiliser, food or feed storage. Store in a cool, dry place.

Keep away from food, drink and animal feeding stuffs.

IMPORTANT INFORMATION FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum individual dose: (l product/ha)	Maximum total dose: (l product/ha/crop)	Latest time of application
Wheat (winter)	1 l/ha	1 l/ha	Three leaves unfolded on the main shoot
Barley (winter)	1 l/ha	1 l/ha	Pre-emergence
The following Aquatic Buffer Zones must be observed:			
Crops/situations:	Aquatic buffer zone distance (metres):		Comment:
Barley (winter), wheat (winter)	5		see Environmental Protection Phrase 1

Other Specific Restrictions

Do not apply via hand-held equipment.

IMPORTANT: Note that goods treated under the terms of this GB authorisation can be legally marketed in Northern Ireland if they are being moved under the Northern Ireland Retail Movement Scheme. All other treated goods can only be marketed in Northern Ireland if they are in accordance with the statutory EU Maximum Residue Level (MRL) set under Regulation (EC) 396/2005. This may also apply to residues in animal products where treated crops are fed to livestock. Growers are advised to draw this to the attention of distributors and retailers so that EU MRL breaches and any associated enforcement against goods marketed in Northern Ireland are avoided.

This product must be sold and used only in England, Scotland and Wales

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

FMC

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To access the Safety Data Sheet for this product, scan the Qr code or use the weblink below:
<https://data.fmc-agro.co.uk/wp-content/uploads/Fundatis-SDS.pdf>
Alternatively, contact your supplier.

11016242_32009058_GREAT BRITAIN AND NORTHERN IRELAND



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Product SKU	11016242	Base for Booklet	
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Label SKU	32009058	Number of pages (Booklet)	
Label SKU Description	LBL_SL-B_5L_FUNDATIS_GB_KWIZ_2	Carton label	
Label SKU (earlier version(s))		Preprinted Material	

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 and Warnings

- Any environmental condition that can increase the crop stress may increase the risk of phytotoxicity e.g. low temperature following application, heavy rainfall, pest attack etc.
- Do not roll the crop after treatment and do not irrigate within 3 weeks following treatment
- Do not disturb the soil after application. Do not apply to stony soils (stones, flints or chalk readily visible on surface). On brash and stony soils, application may cause some reduction in crop vigour and/or plant stand.
- Do not overlap spray swaths. Overlapping may result in damage to the crop.
- Apply Fundatis® herbicide on a finely, not cloddy, cultivated soil. Seeds must be planted at a consistent depth and covered by a minimum of 2.5 cm of settled soil). With direct drilled crops ensure closure of the seed slot before application is made.
- Do not allow Fundatis® herbicide to come into direct contact with the seeds.
- Do not apply if heavy rainfall (>50mm) is forecasted after application.
- Seedbeds must have a fine, firm tilth for optimum weed control. Loose or cloddy seedbeds must be consolidated prior to application.
- Do not use on waterlogged soil or soils prone to waterlogging. Crop thinning or reductions in crop vigour can occur if there is very wet weather after application.
- For best results apply pre-emergence of the weeds and not later than BBCH11 of the weeds.
- Efficacy can be reduced when targeted weeds germinate from below the zone of control of Fundatis® herbicide.
- Product performance can be reduced on soil with more than 4-5% organic matter.
- For best result apply Fundatis® herbicide early in the morning or at the end of the day
- Product should not be applied when the maximum daily forecasted temperature is due to exceed 25°C.
- Do not allow direct sprayer application or indirect contact (such as spray drift) to non-target plants, non-target areas and open water courses (ponds, streams, rivers etc). Fundatis® herbicide may be very toxic to non-target aquatic plants, and many crops or non-target plants are highly sensitive to the product.
- Depending on crops and use rates a buffer zone to open water courses (ponds, streams, rivers etc..) may be required for protection of aquatic organisms. See Environmental Protection section of this label for any restrictions.
 - o Buffer zone for non-target adjacent crops: minimum 5m.
 - o Some adjacent crops can be very susceptible to Fundatis® herbicide including grape vines, orchards and ornamental species. Respect a 100m buffer zone if applying to fields near these sensitive crops.
 - o There is a risk to adjacent crops and non-crop vegetation from Fundatis® herbicide. Use of Fundatis® herbicide may result in damage/bleaching to neighbouring vegetation. If such effects are seen they must be reported via the stewardship program www.fmc-agro.co.uk.
- Spraying herbicides during a temperature inversion can result in the off-target movement of small droplets as physical drift, which never reach their intended target. Be vigilant and don't apply under conditions where temperature inversions have or could develop. Temperature inversion are atmospheric conditions that prevent air from mixing. Temperature close to the soil is lower than in the upper layer of air. The spray solution may not reach the soil and could be moved by wind. One visible sign of a temperature inversion is when mist is observed close to the soil surface.
- IMPORTANT:** Note that goods treated under the terms of this GB authorisation can be legally marketed in Northern Ireland if they are being moved under the Northern Ireland Retail Movement Scheme. All other treated goods can only be marketed in Northern Ireland if they are in accordance with the statutory EU Maximum Residue Level (MRL) set under Regulation (EC) 396/2005. This may also apply to residues in animal products where treated crops are fed to livestock. Growers are advised to draw this to the attention of distributors and retailers so that EU MRL breaches and any associated enforcement against goods marketed in Northern Ireland are avoided. This product must be sold and used only in England, Scotland and Wales

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Mode of Action

The mode of action of Isoflex® active (bixlozone) is inhibition of carotenoid biosynthesis. Deprived of protective carotenoids, chlorophyll as well as other components of the photosynthetic apparatus are susceptible to photo-oxidation. It is the loss of this protective function of carotenoids which leads to the bleached symptoms on susceptible plants. Uptake is primarily via the roots and shoots of emerging weeds. The HRAC classification for Isoflex® active (bixlozone) is Group 13 (DOXP synthase inhibition). Beflubutamid is a soil-active and selective herbicidal compound, taken up primarily by roots, but also by aerial plant parts of young seedlings and its mode of action is as an inhibitor of the carotenoid biosynthesis at the phytoene desaturase step, a key enzyme the photosynthetic pathway. Beflubutamid is a member of the chemical class of the phenoxybutanamide herbicides which belong to the HRAC group 12 (phytoene desaturase inhibitors).

Weed Control

Weed Species	Pre-emergence
Black-grass	MR
Volunteer oilseed rape	S
Cleavers	MS
Cut-leaved cranesbill	S
Red dead-nettle	S
Italian rye-grass	MS
Scented mayweed	S
Scentless mayweed	S
Field forget-me-not	S
Common poppy	MS
Wild radish	S
Common chickweed	S
Ivy- leaved speedwell	S
Common field speedwell	S
Field pansy	MS

Susceptible (S) 85-100%, Moderate Susceptible (MS) 75-84.9%, Moderately Resistant (MR) 60-74.9%, Resistant (R) <60%



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Weed Species	Early post-emergence Maximum growth stage - 1 true leaf
Black-grass	MR
Volunteer Oilseed rape	S
Cleavers	MS
Cut-leaved cranesbill	S
Small-flowered cranesbill	S
Italian rye-grass	MS
Common poppy	MS
Common groundsel	S
Common chickweed	S
Ivy-leaved speedwell	S
Field pansy	MS

Susceptible (S) 85-100%, Moderate Susceptible (MS) 75-84.9%, Moderately Resistant (MR) 60-74.9%, Resistant (R) <60%

Resistance

- Fundatis® herbicide contains bixlozone (which belongs to HRAC group 13, legacy HRAC F4) and beflubutamid (which belongs to HRAC group 12, legacy HRAC F1)
- Follow the best use recommendations (number of applications, application timing and minimum dose rate).
- Do not use Fundatis® herbicide or any other group HRAC 13 and 12 herbicides as the sole means of broad spectrum weed control in successive crops.
- Use tank mixes or sequences of effective herbicides with different modes of actions within individual crops, or successive crops.
- Maximize the use of cultural control measures wherever possible (e.g., crop rotation, ploughing, stale seedbeds, delayed drilling, etc.) to prevent and manage herbicide resistance.
- Scout fields regularly and investigate reasons for suboptimal efficacy from the product.
- Always follow HRAC guidelines for preventing and managing herbicide resistant weeds.

For additional information on weed resistance, modes of action and monitoring visit the Herbicide Resistance Action Committee (HRAC) on the web at www.hracglobal.com.



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Application Details - Winter Wheat and Winter Barley

Fundatis® herbicide can be applied to crops using tractor-mounted, ground-directed broadcast sprayers. Always follow good agricultural practice.

Recommended tractor speed should be no more than 12 km/h with a maximum boom height of 50 cm.

Fundatis® herbicide can be also applied in row/banded application. In this situation, a maximum of 50% of the field can be treated, at a rate which results in the treated bands receiving the same rate of product compared to a broadcast application.

Herbicidal activity is dependent upon root and shoot uptake.

When applying Fundatis® herbicide it is important for crop safety to ensure physical separation of the herbicide from the seed. This is achieved by ensuring that the seed is well covered with soil.

Transient bleaching of the first leaves of the crop may occur especially when used in light soil, poor quality seedbeds or following excessive rainfall. If bleaching is still visible after 4 to 6 weeks, please contact your FMC representative.

Under certain conditions Fundatis® herbicide may cause some reduction in crop vigour and/or plant stand if excessive rain falls shortly after application, particularly on lighter soils.

Not all varieties or cultivars of crops under all environmental conditions and growing circumstances have been individually tested for crop safety. Do not apply on spring barley varieties drilled in the autumn. In case of any doubt, consult an FMC representative.

If application is made to a dry soil surface, efficacy can be reduced if no rainfall occurs before weed emergence. Weed control is dependent on adequate soil moisture.

Dose

Apply Fundatis® herbicide at 1 L/ha.

Timing

Winter barley - Apply one application per crop in the Autumn pre-emergence up to and including when the coleoptile penetrates soil surface (cracking stage; BBCH 00-09).

Winter wheat - Apply one application per crop in the Autumn pre-emergence or early post-emergence up to and including 3 leaves unfolded on the main shoot (BBCH 00-13). For early post-emergence applications, the grass weed growth stage should not exceed 1 leaf (BBCH 11).

Water Volume

Apply in a minimum water volume of 200 litres/ha.

Use a tractor-mounted, ground-directed broadcast sprayers or a row/band applicator and apply as a COARSE spray quality for pre-emergence application and MEDIUM spray quality for post-emergence application (as defined by BCPC).



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Rotational Crops and Crop Failure:

After application of Fundatis® herbicide a period of at least 9 months must elapse before the planting of any rotational or replacement crop, except cereals, oilseed rape, maize, field bean, and combining pea.

If the crop of winter wheat or winter barley fails after an application of Fundatis® herbicide, there are a number of options for crop replacement. The following crops can be grown safely and without any restrictions in the next spring: spring oilseed rape, combining pea, field bean, and maize.

The following crops can be safely grown with some restrictions:
In the same autumn after with a minimum delay of 4 weeks after application and ploughing:
winter field bean, winter barley, winter wheat.

In the next spring after application and ploughing:
spring wheat.

In prolonged dry conditions ploughing is recommended prior to planting of any subsequent crop.

Mixing

It is important that spray equipment is clean and free of previous pesticide deposits before using the product and then properly cleaned out following application. Clean all application equipment before applying the product. Follow the clean-up procedures specified on the label of the product previously sprayed.

Shake well before use. Put the required amount of product into the spray tank filled ¼ to ½ full with water.

- Fill the tank with the remaining amount of water.
- Keep the agitator running while spraying.
- If you are adding another product to the tank mix, follow the tank mixing sequence below.

Fundatis® herbicide requires constant agitation, and all solutions should be used or disposed of within a single working day (<24 hours). Standard mixing order should be followed to properly suspend and avoid physical incompatibility of Fundatis® herbicide. Add different formulation types in the sequence indicated below and allow time for complete mixing and dispersion after addition of each product.

1. Water soluble granules (SG)
2. Water dispersible granules (WG)
3. Wetttable powder (WP)
4. Suspension concentrate (SC)
5. Capsule suspension (CS) and (ZC)
6. Suspo-emulsion (SE)
7. Oil dispersion (OD)
8. Emulsion, oil in water (EW)
9. Emulsifiable concentrate (EC)
10. Adjuvants, surfactants, oils
11. Drift retardants

Compatibility

Do not mix Fundatis® herbicide with liquid formulated nitrogen-based fertilisers.



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Spray Tank Clean-Out

Standard tank clean-out procedure should be followed to adequately remove Fundatis® herbicide residues from the tank and spray equipment; ensure the minimum requirement of triple rinsing of all tank components following the application is performed.

The following procedures are the minimum requirement for cleanout, consult local requirements for additional needs:

- All spray mixtures should be sprayed completely out of the tank through the boom/nozzles in a designated cleanout area.
- A minimum of 20% tank capacity of clean water is recommended for the initial cleanout; the tank should be rinsed and recirculated throughout the tank systems (all appropriate valves open).
- Spray out the tank solution in a designated cleanout area.
- Remove, clean, and rinse all screens and the boom end caps; flushing of the boom may be required; reattach all pieces.
- Perform a second rinse of the system with 20% of the tank volume; spray the solution in a designated area.
- Perform a final rinse of the system with 20% of the tank volume; spray the solution in a designated area.
- Check all nozzles/screens for particulates that may have accumulated; physically clean as appropriate.

Note: Consult label tank clean-up procedures for all tank mix partners and be sure to use the most rigorous procedure recommended.

Integrated Pest management

FMC supports the use of Integrated Pest Management (IPM) programs to control weeds. This product may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic weed damage. IPM principles and practices include field monitoring or other detection methods, correct target weeds identification, population monitoring, rotation of products with different modes of action, and treating when target weeds populations reach locally determined action thresholds. Consult your local distributor technical service, professional consultants, or other qualified authorities to determine appropriate action treatment threshold levels for treating specific weeds /crop or site system in your area.

Notice To Buyer

FMC as the manufacturer warrants that the composition of the product in sealed original FMC packaging complies with the information given on this label. FMC is not liable for any direct or indirect consequences resulting from improper storage, handling or use of the product contrary to or otherwise not in compliance with this label, law and regulations. Various factors, especially local conditions, such as soil condition, plant varieties and weather conditions, may either cause the product not to have the full desired effect or result in damage to the crops treated. FMC does not assume any liability for such results.

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