



BUTRYFLOW®

MAPP 14056
PCS No. 03659

A suspension concentrate containing 401.58 g/L bromoxynil present as a mixture of the butyrate, phenol and octanoate esters.

BUTRYFLOW is recommended for use as a selective weedkiller in **barley, oats, wheat**, forage maize, grain maize, sweetcorn, linseed and bulb onion and shallot (grown from seed) for the control of a wide range of annual broadleaf weeds.

The Control of Substances Hazardous to Health (COSHH) regulations may apply to the use of this product at work for the UK only.

Contents: 5 – 20 Litres

Batch No.:

PROTECT FROM FROST
FOR PROFESSIONAL USE ONLY

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IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop	Maximum Individual Dose	Maximum Total Dose	Latest Time of Application
Forage Maize, Grain Maize, Sweetcorn (outdoor)	1.l/ha	1.0 l/ha	Before 9 fully expanded leaves (GS19)
Linseed	1.0 l/ha	1.l/ha	Before the crop is 15cm tall
Barley (spring), barley (winter), oats (spring), oats (winter), wheat (spring), wheat (winter)	0.75 l/ha	0.75 l/ha	Before 2 nd node detectable stage
Bulb Onion, Shallot	0.75 l/ha	0.75 l/ha	4 true leaves (GS14)

Other specific restrictions:

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with the 'Local Environment Risk Assessment for Pesticides Horizontal Boom Sprayers' booklet available from the HSE Chemicals Regulation Directorate's website or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years – UK only.

Applications should only be made to bulb onion and shallot crops that will be mechanically harvested.

Applications to bulb onion and shallot should only be made between 1 May and 30 September.

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.

Safety Information



WARNING

Harmful if swallowed.

Harmful if inhaled

May cause an allergic skin reaction

Suspected of damaging the unborn child.

Very toxic to aquatic life with long lasting effects

Avoid breathing spray

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

IF ON SKIN: Wash with plenty of soap and water

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

IF SWALLOWED: Call a POISON Center or doctor/physician if you feel unwell

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

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

MAPP 14056 PCS No. 03659

Additional Safety Phrases – Ireland only

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 protect aquatic organisms respect an unsprayed buffer zone of 5 metres to surface water bodies.

SAFETY PRECAUTIONS – UK only

Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment

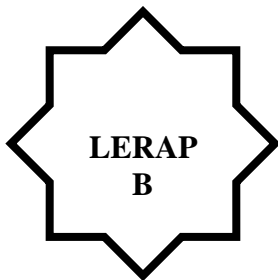
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS, APRON) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces

However, engineering controls may replace personal protective equipment if a COSHH assessment shows that they provide an equal or higher standard of protection

DO NOT APPLY by knapsack sprayer
WHEN USING DO NOT EAT DRINK OR SMOKE
AVOID ALL CONTACT WITH SKIN AND EYES
IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible)

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.



DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5m of the top of the bank of a static or flowing waterbody, unless a Local Environmental Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone or within 1 m of the top of a ditch which is dry at the time of application. Aim spray away from water.

This product qualifies for inclusion within the Local Environmental Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for inspection for three years.

Storage and disposal

KEEP OUT OF REACH OF CHILDREN

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

STORE IN ORIGINAL CONTAINER, tightly closed in a safe place

DO NOT RE-USE CONTAINER for any purpose

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

DO NOT treat crops suffering from stress caused by drought, frost, disease or other adverse factors.

CONSULT PROCESSOR BEFORE USING ON CROPS FOR PROCESSING.

Avoid overlapping spray swaths

WEEDS CONTROLLED

Applied as post-emergence herbicide in maize, sweetcorn, linseed, bulb onion and shallot BUTRYFLOW controls a wide range of annual broad-leaved weeds, especially young seedlings.

Maize, Sweetcorn, Linseed, Bulb onion and Shallot

The treatment must be made when the weeds are between the cotyledon stage and the 6-leaf stage.

Weed Species	1.0 L/ha	0.75 L/ha	0.6 L/ha
Black Bindweed	S	S	S
Black Nightshade	S	S	S*
Broad-leaved Dock	R	R	R
Common Chickweed	MR	MR	R
Common Orache	S	S	S*
Fat-hen	S	S	S*
Field Bindweed	S	S	S*
Knotgrass	S	S	MS
Redshank	MS	MS	MS

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

S* = Very susceptible species which will be controlled by a dose of 0.6 L/ha Butryflow under optimum conditions (Warm moist soils and bright sunshine).

Barley, Wheat and Oats

Weeds	Weed size	0.75 L/ha	0.6 L/ha	0.5 L/ha
Volunteer Oilseed Rape	6 Leaves	-	-	S
Black Nightshade	2 Leaves	MS	-	-
Common Chickweed	4 Leaves ¹	MS	-	-
Groundsel	6 Leaves	S	S	-
Fat Hen	4 Leaves	-	S	-
Scentless Mayweed	4 Leaves	MR	-	-
Black Bindweed	1 Leaf	MR	-	-

¹Application to chickweed at larger growth stages will give a significantly reduced level of control

CROP SPECIFIC INFORMATION

FORAGE MAIZE, GRAIN MAIZE AND SWEETCORN

Maximum Individual Dose: 1.0 l/ha

Maximum Total Dose: 1.0 l/ha

Application timing: Apply from the 2 leaf stage of the crop up to the 8 leaf stage (GS 12-18). The period of treatment must be determined by the growth of the weeds rather than by the growth of maize. The duration of protection covers the whole period when maize is susceptible to weed competition.

Water Volume: Apply in 200 l/ha

LINSEED

Maximum Individual Dose: 1.0 l/ha

Maximum Total Dose: 1.0 l/ha

Application timing: Apply when the crop is 3 – 15 cm tall but before flower buds are visible.

Water Volume: Apply in 200 l/ha

WINTER AND SPRING WHEAT, WINTER AND SPRING BARLEY, WINTER AND SPRING OATS

To avoid scorch apply BUTRYFLOW to young plants under cool conditions, if the weather during application turns hot spray in the evening when temperatures have fallen.

Maximum Individual Dose: 0.75 l/ha

Maximum total dose: 0.75 l/ha

Application timing: Autumn and spring sown cereals. Wheat, Barley and Oats may be treated from the 2 fully expanded leaf stage but before 2nd node detectable stage.

Water Volume: Apply in 200 l/ha

BULB ONION, SHALLOT (GROWN FROM SEED)

APPLICATION SHOULD ONLY BE MADE TO BULB ONION AND SHALLOT CROPS THAT WILL BE MECHANICALLY HARVESTED.

DO NOT APPLY BUTRYFLOW TO BULB ONION OR SHALLOT GROWN FROM SETS

Maximum Individual Dose: 0.75 l/ha

Maximum total dose: 0.75 l/ha

Application timing: Apply between 1 May and 30 September. Apply from crop emergence until 4 true leaves (BBCH14). It is important to note that crop tolerance is related to the development of leaf waxes and application when the development to leaf waxes has been impaired may cause crop damage. This could be when the crop is under stress or when applied before 3 true leaves are fully expanded when the development of waxes may not be complete.

Water Volume: Apply in 200 l/ha

MIXING AND SPRAYING

Partly fill the tank with water to a level of approximately a third of total, and then start agitation. Add the required quantity of BUTRYFLOW to the tank. Maintain agitation during treatment.

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

Do not spray in windy weather.

Do not apply using handheld or low pressure equipment or at water volumes lower than those recommended.

TANK CLEANING

Wash spray equipment and container thoroughly with alkaline solution.

Rinse twice through the system with pump to ensure that all pipes and nozzles are rinsed thoroughly.

COMPATIBILITY

Consult the manufacturer's labels and leaflets for use recommendations.

WEED RESISTANCE

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 within a weed species can be avoided or delayed by alternating (or tank mixing) with suitable products having a different mode of action.

Key aspects of the BUTRYFLOW weed resistance management strategy are:

- Always follow the WRAG guidelines for preventing and managing herbicide resistance.
- BUTRYFLOW is a nitrile herbicide (HRAC Code C3) whose mode of action is via membrane disruption caused by activated oxygen radicals formed by photosynthesis. Do not use BUTRYFLOW, or any other C3 herbicide, as a sole means of broad-leaved weed control in successive crops.
- Always use broad-leaved weed herbicides with other modes of action throughout the crop rotation.
- Always monitor weed control effectiveness and investigate any occurrences of poor effectiveness. If unexplained contact your agronomist who may consider a resistance test appropriate.

COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Product Regulations 2011. It provides additional advice on product use at the discretion of the applicant.

Good Agricultural Practice

Avoid applications of BUTRYFLOW to bulb onions during high temperatures or during light, bright cloudless days.

ACKNOWLEDGMENTS'

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All goods supplied by Nufarm UK Ltd. are 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 or our Associate Companies for any damage or injury whatsoever arising from their storage, handling, re-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.