

Proshield®

A suspension concentrate formulation containing 250g/L glyphosate and 40g/L diflufenican. A non-selective herbicide for control of annual and perennial weeds on natural surfaces not intended to bear vegetation and permeable surfaces overlaying soil.

MAPP17525



WARNING



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

A suspension concentrate formulation containing: 250g/L glyphosate and 40g/L diflufenican

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

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-Benzisothiazolin-3-one. May produce an allergic reaction.

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

Herbicide

5 Litre e

P50124 (R101112120A)

ICL

IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL HERBICIDE

Situation:	For use on natural surfaces not intended to bear vegetation, permeable surfaces overlaying soil.
Maximum individual dose:	4.5 litres product/hectare
Maximum number of treatments:	1 per year
Latest time of application:	End of July

Other specific restrictions:

This product must only be used on natural or porous surfaces such as gravel where the user can establish that the underlying surface is soil and railway ballast surfaces. Do not use if an impermeable membrane lies between the porous surface and the soil. Do not apply to any non-porous man-made surfaces. To minimise spray drift, the product must be applied using a nozzle capable of producing a coarse quality spray.

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.

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

Authorisation Holder: **BASF plc**, 4th and 5th Floors, 2 Stockport Exchange, Railway Road, Stockport SK1 3GG United Kingdom, Telephone 0161 475 3000.

Emergency Telephone Number:
+44 1235 239 670 (*24-hour response number*)

Technical enquiries: **Tel: 0 844 809 44 70.**

For SDS check our SDS viewer on the icl-sf.com website.

Marketing company: **Everris Limited**, Epsilon House,
West Road, Ipswich IP3 9FJ United Kingdom,
Tel: 0 844 809 44 70.

SAFETY PRECAUTIONS

Operator Protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment: WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate. WEAR SUITABLE PROTECTIVE GLOVES AND COVERALLS when applying by hand held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.
WASH HANDS before eating and drinking and after work.

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 onto non-crop plants outside the target area.

Since there is a risk to aquatic life from use, direct spray must not be allowed to fall within 2 m of the top of the bank of any static or flowing waterbody or the top of a ditch which is dry at the time of application. Spray must be aimed away from water.

Storage and Disposal:

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDINGSTUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

EMPTY CONTAINER COMPLETELY and dispose of safely.

PROTECT FROM FROST

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

GENERAL INFORMATION

ProShield® is a suspension concentrate formulation containing 250 g/L glyphosate and 40 g/L diflufenican. ProShield® has foliar absorbed translocated activity, combined with soil acting properties, providing pre-emergence weed control. The product is applied post-emergence to control a wide range of annual and perennial broad-leaved weeds and grasses on porous surfaces on land not intended to bear vegetation.

Tip:

For established deep rooted perennial weeds such as dandelion, thistle, dock and nettles which may be re-generating, a post-emergence application is ideally required.

RESTRICTIONS

Since there is a risk to aquatic life from use, direct spray must not be allowed to fall within 2 m of the top of the bank of any static or flowing waterbody or the top of a ditch which is dry at the time of application. Spray must be aimed away from water. Applications should not be made to plants growing under stress conditions, such as drought or water-logging, as reduced levels of control may result. Do not spray in windy weather. Extreme care must be taken to avoid drift onto non-target plants. This includes leaf surfaces, young bark or suckers of valued plants. Failure to do so may result in permanent damage or plant death.

Where ProShield® has been applied to sites that are subsequently to be cleared or grubbed, a period of at least 6 months should elapse between treatment and the sowing and planting of subsequent crops. In addition, the soil should be ploughed or dug afterwards to ensure thorough mixing in order to remove any risk of damaging subsequent crops or planting. Where 'Proshield' or other products containing diflufenican are applied in successive years, levels of diflufenican will build up in the soil. Even where soils are thoroughly dug there may be a risk of damage to subsequent plantings.

Care should be taken when applying ProShield® as heavy rain following application may wash the herbicide onto sensitive areas such as newly sown grass and areas about to be planted. Where the soil organic matter content is greater than 10%, or for example where leaves have collected or where a mat of organic matter has built up, pre-emergence activity will be reduced. For maximum persistence of activity the area treated should not be cultivated or raked following application.

For maximum pre-emergence and residual activity from ProShield®, ensure good coverage of the spray swath. Untreated areas will not be protected. Overdosing should be avoided. Do not add any wetting agent or adjuvant oil as this may result in reduced activity.

DO NOT APPLY ProShield® OVER DRAINS OR IN DRAINAGE CHANNELS, GULLIES OR SIMILAR STRUCTURES FOR MOVING WATER.

WEEDS CONTROLLED

Strains of some annual weeds (e.g. black-grass, wild-oats, and Italian rye-grass) have developed resistance to herbicides which may lead to poor control. A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control measures. Guidelines have been produced by the Weed Resistance Action Group and copies are available from the HGCA, CPA, your distributor, crop adviser or product manufacturer.

ProShield® has a broad spectrum of activity if used at the recommended rate and under optimum conditions. It should give initial 'knockdown' of a wide variety of broad-leaved and grass weeds and thereafter residual control for a wide variety of broad-leaved weeds for up to at least 3 months, and up to 4 months on hard surfaces.

Weeds controlled such as:

Annual meadow-grass, annual nettle, buttercup, Canadian fleabane, mouse ear chickweed, chickweed, common daisy, common groundsel, ragwort, couch grass, cranesbill sp, dandelion, dock, fat hen, field forget-me-not, mayweed, perennial thistle, plantain sp, polygonaceae sp, red dead-nettle, rough-stalked meadow-grass, sowthistle, speedwell, willowherb.

Grasses may be the first weeds to return in treated areas and may require re-treatment with a glyphosate based product such as CDA Vanquish® Biactive.

Tip:

Treated areas which may have been protected from the spray swath such as areas of soil shaded by a larger weed canopy at application may require re-treatment with a glyphosate based product such as CDA Vanquish® Biactive.

Long term control

Perennial weeds such as dandelions and docks emerging from established root-stocks after application will not be controlled.

SITUATION SPECIFIC INFORMATION

Use Areas:

ProShield® may be used in non-crop areas against weeds in open soil and against weeds growing in gravel or other porous surfaces. Examples of suitable use areas include fence lines, strips of land adjacent to buildings, industrial sites, timber yards, farm yards, oil and gas storage sites, power stations, electric sub stations, beneath pylons, around street/park obstacles.

ProShield® must not be used on non-porous man made surfaces, for example paved areas, concrete or tarmac car parks and footpaths.

ProShield® may be used on porous surfaces such as gravel ONLY where the underlying surface is soil. Do not use if an impermeable membrane lies between the gravel and the soil. The product must not be used on gravel where the underlying surface is concrete, tarmac or any other non-porous surface, or in situations where there is potential for run-off into surface waters.

Rate of Use:

EQUIPMENT	AREA	PRODUCT REQUIRED	WATER VOLUME	Spray Quality (Nozzle)	Spray height	Buffer Zone
Knapsack	100 m ²	45 ml	2 - 5 L	Coarse	40 cm	2 m
	1000 m ²	450 ml	20-50 L	*Hypro Lo-Drift 03 80 or similar (provided)		
	1 ha	4.5 L	200-500 L			

*Hypro Lo-Drift 03 80 nozzle provided gives, subject to calibration: a coarse spray with a flow rate of 0.95 L/min at 2 bar, giving 220 L/ha at 4kph walking speed, swath width of 65 cm, 40 cm nozzle height

Application Timing:

Apply ProShield® post-emergence of weeds at any time from March until the end of July, provided that the weeds are actively growing and have not begun the process of natural die-back. At least six hours, but preferably 24 hours of dry weather are required immediately following application for optimum control.

Tip:

For post-emergence application ideally annual broad-leaved weeds should have at least two fully expanded true leaves and annual grasses should be at the one leaf growth stage or beyond. Some perennial weeds, including docks, perennial sowthistle and willowherb are best treated just before flowering or the setting of seed.

MIXING AND SPRAYING

Shake well before use. Half fill the spray tank with clean water. Start gentle agitation and add the required quantity of ProShield®. Mix and top up to the required volume with water. Use immediately. **WASH OUT THE SPRAYER THOROUGHLY AFTER USE, USING A WETTING AGENT OR PROPRIETARY TANK CLEANER WITH TWO RINSES, AS TRACES OF ProShield® MAY CAUSE HARM TO OTHER SUSCEPTIBLE PLANTS SPRAYED LATER.**

Equipment:

Use a knapsack sprayer fitted with a coarse nozzle using a pressure of around 1-2 bars to provide a coarse spray. Use of anti-drift nozzles or the use of a protector shield to avoid any drift is recommended.

NOZZLE

Hypro Lo-Drift 03 80 nozzle (provided) gives, subject to calibration: a coarse spray with a flow rate of 0.95 L/min at 2 bar, giving 220 L/ha at 4kph walking speed, swath width of 65 cm, 40 cm nozzle height, or use similar nozzles that give coarse spray.

Good and even coverage of foliage and soil is essential for optimum activity.

ProShield® is a registered Trade Mark of: **Everris (UK) Ltd.**

CDA VANQUISH® BIACTIVE is a registered trademark of Bayer CropScience Limited.

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