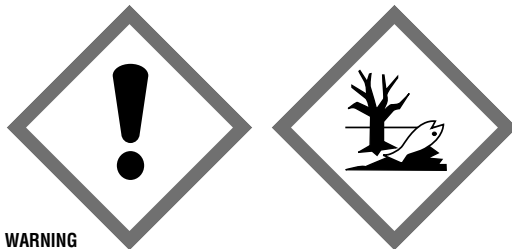


## SAFETY INFORMATION

### Starane® Hi-Load HL

Contains Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide

UFI: 85X4-901Q-900F-5660



## WARNING

May cause allergic skin reaction

Causes serious eye irritation

May cause respiratory irritation

Very toxic to aquatic life with long lasting effects.

Avoid breathing mist / vapours / spray.

Wear protective gloves / protective

clothing/eye protection / face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Dispose of contents / container to a licensed waste disposal contractor or collection site except for empty clean triple rinsed 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.

PCS No. 04549

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

### Crop:

Wheat (winter), barley (winter), oats (winter), rye (winter), wheat (spring), barley (spring), oats (spring), rye (spring), triticale, durum wheat, spelt, forage maize, newly sown grass leys, grass seed crops.

Maximum Individual Dose:

Maximum Total Dose:

Latest Time of Application:

Other Specific Restrictions:

} Full details are given in the Important Information area on the attached leaflet

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.



# Starane®

## Hi-Load HL

## HERBICIDE

TM © Trademark of Corteva Agriscience and its affiliated companies.

GROUP 4 HERBICIDE

Product Registration Number: PCS No. 04549

An emulsifiable concentrate containing 480 g/litre (45.6% w/w) fluroxypyr as the 1-methyl heptyl ester (333 g/litre acid equivalent).

A selective post-emergence herbicide for use on WINTER and SPRING CEREALS, FORAGE MAIZE, GRASS SEED CROPS and NEW SOWN LEYS to control a range of annual weeds, including CLEAVERS, COMMON CHICKWEED, FIELD FORGET-ME-NOT, COMMON HEMP-NETTLE and BLACK-BINDWEED.

### Authorisation Holder:

Corteva Agriscience UK Limited

CPC2 Capital Park, Fulbourn, Cambridge, CB21 5XE United Kingdom

Telephone: + 44 1462 457272

Technical enquiries: +44 800 6898899 or email: [ukhotline@corteva.com](mailto:ukhotline@corteva.com)

24 Hour Emergency Telephone Number: +353 818 663 627

National Poison Centre (Dublin): 01 8092166

NET CONTENTS : 5 LITRES e

## 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 CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from eyes or skin immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN 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).

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

### Storage and disposal:

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, empty washings into spray tank, and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

### PROFESSIONAL USE ONLY

PROTECT FROM FROST

Triple Rinse Containers, Puncture and Invert to Dry at time of Use  
READ DIRECTIONS FOR USE ON ATTACHED LEAFLET



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2D data matrix code

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.

IMPORTANT INFORMATION.			
FOR USE ONLY AS A PROFESSIONAL HERBICIDE			
Crop	Maximum Individual Dose	Maximum Total Dose	Latest Time of Application
Winter cereals (wheat, barley)	0.6 litres product per hectare	0.6 litres product per hectare per crop	Before flag leaf sheath opening stage (GS45 inclusive)
Winter cereals (Triticale)	0.6 litres product per hectare	0.6 litres product per hectare per crop	Before flag leaf sheath extending stage (GS 39 inclusive)
Rye, winter oats, durum wheat	0.6 litres product per hectare	0.6 litres product per hectare per crop	Before second node detectable stage (GS 31 inclusive)
Spring cereals (wheat, barley)	0.45 litre product per hectare	0.45 litre product per hectare per crop	Before flag leaf sheath extending stage (GS 39 inclusive)
Spring Oats	0.45 litres product per hectare	0.45 litres product per hectare per crop	Before second node detectable stage (GS 31 inclusive)
Forage maize	0.6 litre product per hectare	0.6 litre product per hectare per crop	Before seven leaves unfolding stage
Newly sown grass leys and grass for seeds	0.45 litre product per hectare per year	0.45 litre product per hectare (see Other Specific Restrictions)	GS 32
<b>Other Specific Restrictions:</b> A maximum total dose of 0.45 litres per hectare must be observed for applications made to crops between crop emergence in the year of planting and 1 <sup>st</sup> February in the year of harvest. <b>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.</b>			

NOTES

For best results apply STARANE HI-LOAD HL when weeds are actively growing. In newly-sown crops, seedling and small weeds are more susceptible to STARANE HI-LOAD HL and will respond quicker when treated at this stage. Vigorous crop competition enhances control of the more resistant weeds and prevents weeds which germinate after application from becoming a problem in the crop.

Crops undersown with grass may be sprayed provided the grasses are tillering.

Do not apply to crops undersown with clover or other legume-containing mixtures.

Non-printed area on page 2 ONLY  
(on the back of 2D code area printed on the front page)

STARANE HI-LOAD HL is of low volatility and is therefore not subject to vapour drift.

Do not spray in windy weather and avoid drift onto non-target crops/areas.

Do not treat crops under stress. Stress can be caused by many factors including frost, drought, water-logging, trace element deficiency, disease and pest attack etc.

Do not spray if night temperatures are low (<6°C) or if frost is imminent.

STARANE HI-LOAD HL used alone is rain-fast one hour after application.

Do not roll or harrow 7 days before or after treatment.

Keep livestock out of treated areas for at least 7 days and until poisonous weeds such as ragwort have died and become unpalatable.

Wash equipment thoroughly with water and detergent immediately after use as traces of STARANE HI-LOAD HL can cause harm to susceptible crops sprayed later.

MIXING

Add the appropriate amount of STARANE HI-LOAD HL to clean water in a half-filled sprayer tank, mix thoroughly and add the remainder of the water. The spray mix must be used immediately and agitated continuously during mixing and until application is complete.

VOLUME

Using standard nozzles the recommended spray volume is 70 to 400 litres of water per hectare. The lowest water volume should only be used in very open crops on small weeds. On later applications where the crop is dense, the spray volume should be increased to 400 litres water per hectare. The minimum recommended pressure is 2 to 3 bars.

SPRAY QUALITY

Apply STARANE HI-LOAD HL as a MEDIUM spray as defined by the BCPC system.

MODE OF ACTION AND RESISTANCE MANAGEMENT

Fluroxypyr is the active substance included in STARANE HI-LOAD HL. Fluroxypyr belongs to the synthetic auxin herbicide family (Group "4" according to HRAC classification). In Europe, there is no resistance or cross-resistance issue to fluroxypyr of any tested biotype of the susceptible weeds species (cleavers, Common chickweed, Common hemp nettle, field bindweed). The risk of resistance development of broad leaved weeds to fluroxypyr is unlikely and STARANE HI-LOAD HL can be used for controlling all biotypes - including those which are resistant to other modes of actions (e.g. Common chickweed, Common hemp nettle).

In order to reduce the risk of resistance developing, consider using products of different mode of action when carrying out repeat treatments.

EFFICACY

STARANE HI-LOAD HL controls susceptible broad leaved weeds which are already emerged. The efficacy is not influenced by the soil type but it is influenced by the weed species, the weed growth stage (young weeds are more susceptible) and the weather conditions. Efficacy is optimized under good growing conditions. Efficacy can be reduced by cold temperatures (less than 10°C) or dry conditions.

CEREALS

CROPS AND TIMING

STARANE HI-LOAD HL alone can be applied from the two leaf stage of the crop up to and before the following growth stages:

Winter wheat and winter barley: before flag leaf sheath opening stage (GS 12-45 inclusive).

Winter Triticale: before flag leaf sheath extending stage (GS 12-39 inclusive).

Winter oats, rye, durum wheat: before second node detectable (GS12-31 inclusive).

WINTER AND SPRING APPLICATION TO WINTER CEREALS  
Wheat, barley, oats, rye, durum wheat, triticale and spelt

RATES OF USE, WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

Product and rate of use per hectare	0.6 litre STARANE HI-LOAD HL
Cleavers Common chickweed Common hemp-nettle Field forget-me-not	Flowering
Black bindweed Henbit dead-nettle Red dead-nettle Common fumitory Knotgrass	6 true leaves 4 true leaves 4 true leaves 2 true leaves 2 true leaves
Common field-speedwell Groundsel Ivy-leaved speedwell Mayweed spp Pale persicaria Redshank	Checked at 2 true leaf stage only
Bugloss Charlock Common poppy Corn marigold Fat-hen Field penny-cress Scarlet pimpernel Shepherd's-purse Small nettle Wild radish Volunteer rape	Resistant

SPRING APPLICATION TO SPRING CEREALS

CROPS AND TIMING

Spring cereals

Spring wheat, spring barley, spring oats

STARANE HI-LOAD HL alone can be applied from the two leaf stage of the crop up to and before the following growth stages:

Spring wheat and spring barley: before flag leaf sheath opening stage (GS 12-39 inclusive).

Spring oats: before second node detectable (GS12-31 inclusive).

RATES OF USE, WEED SUSCEPTIBILITY AND MAXIMUM SIZE CONTROLLED

Product and rate of use per hectare	0.45 litre STARANE HI-LOAD HL
Cleavers Common chickweed Common hemp-nettle Field forget-me-not	100 mm 100 mm 100 mm 50 mm
Black bindweed Common fumitory Knotgrass	4 true leaves 2 true leaves 2 true leaves
Corn spurrey Groundsel Mayweed spp Pale persicaria Redshank Speedwell spp	2 true leaves     Checked at 2 true leaf stage only
Common orache Common poppy Corn marigold Fat-hen Shepherd's-purse Small nettle	Resistant

NEWLY SOWN GRASS LEYS

WEEDS CONTROLLED

Weed	Rate of use litres/ha	Weed size controlled
Common chickweed	0.45	50 mm

RATE OF USE AND WATER VOLUME

Apply STARANE HI-LOAD HL at 0.45 litre/ha in a spray volume of 200 to 400 litres of water per hectare to give good coverage of the weed.

Use the higher volume of water where weeds, especially common chickweed, are large at the time of spraying and where the grass is dense.

TIMING

Application timing is crucial and STARANE HI-LOAD HL should be applied when weeds are actively growing.

Autumn application

Apply STARANE HI-LOAD HL in early autumn when the grasses have at least 3 fully expanded leaves. Best control is achieved if STARANE HI-LOAD HL is applied when the weeds are growing actively.

Spring application

Apply STARANE HI-LOAD HL to newly sown spring leys when grasses have at least 3 fully expanded leaves.

**GRASS FOR SEED**

Autumn application

Apply STARANE HI-LOAD HL in early autumn when the grasses have at least 3 fully expanded leaves (GS 13-32). Best control is achieved if STARANE HI-LOAD HL is applied when the weeds are growing actively.

Spring application

Apply STARANE HI-LOAD HL to newly sown spring leys when grasses have at least 3 fully expanded leaves (GS 13-32).

**FORAGE MAIZE**

**NOTES**

Do not apply in tank mix with any other product or if the crop is beyond the recommended growth stage.

Avoid boom overlap.

**WEEDS CONTROLLED**

STARANE HI-LOAD HL will control the following weed species. Those germinating after treatment will not be controlled.

	<b>STARANE HI-LOAD HL at 0.6 L/ha</b>
Black nightshade	S

**TIMING**

STARANE HI-LOAD HL can be applied from the 3 leaf stage (GS 13) to before the 7 leaves unfolding stage (GS 16).

Do not apply once the buttress roots (side roots) have started to develop on the first node.

**NEIGHBOURING CROPS**

STARANE HI-LOAD HL is of low volatility and is therefore not subject to vapour drift.

Do not spray in windy weather and avoid spray drift onto non-target crops. Spray drift can be injurious to various susceptible crops so that a 3-5 m buffer zone must be observed when spraying close to vines, orchards, sunflower, legumes, vegetable crops, ornamentals, linseed, sugar beet, potatoes etc.

**SUCCEEDING CROPS**

**Crop failure**

In the event of a cereal crop failure the following crops can be sown: Spring cereals, spring oilseed rape, maize, onion, cultivated poppies and new leys. A minimum interval of 5 weeks is required and there are no cultivation restrictions.

**Rotational crops**

All crops can be sown following an application of STARANE HI-LOAD HL.

Consider all herbicides used on the treated field before deciding the new crop to be sown.

For the latest advice please contact Corteva Agriscience or the product supplier.

**TANK WASHING**

Traces of STARANE HI-LOAD HL can cause harm to susceptible crops sprayed later.

Carefully rinse the bottle after use and pour the rinsing water into the spray tank.

Ensure the empty bottle cannot be re-used.

Following use thoroughly wash the spraying equipment. If there is any contamination on the outside of the sprayer wash with clean water.

Rinse the inside of the spray tank with clean water and pump through spray pipes and nozzles to remove any contamination. Re-fill spray

tank with a minimum of 10% of the total spray tank volume and re-circulate water for approximately 10 minutes. Safely dispose of spray rinse water.

Dispose of empty containers responsibly.

**TRADEMARK ACKNOWLEDGEMENT**

STARANE HI-LOAD HL is a trademark of Corteva Agriscience and its affiliated companies.

All other brand names used in this document are trademarks of other manufacturers in which proprietary rights may exist

**CORTEVA AGRISCIENCE 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 or 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. 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.

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



<https://www.corteva.ie/content/dam/dpagco/corteva/ew/ie/en/files/sds/STARANE-HILOAD-IRL-SDS.pdf>

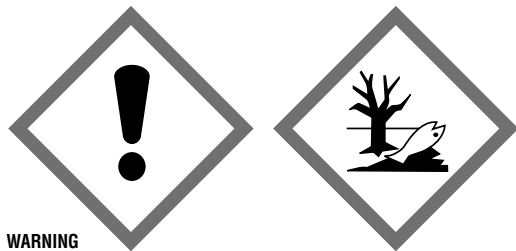
Alternatively contact your supplier

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May cause allergic skin reaction

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IF ON SKIN: Wash with plenty of water.

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PCS No. 04549

## IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop:

Wheat (winter), barley (winter), oats (winter), rye (winter), wheat (spring), barley (spring), oats (spring), rye (spring), triticale, durum wheat, spelt, forage maize, newly sown grass leys, grass seed crops.

Maximum Individual Dose:

Maximum Total Dose:

Latest Time of Application:

Other Specific Restrictions:

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# Starane®

## Hi-Load HL

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24 Hour Emergency Telephone Number: +353 818 663 627

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#### PROTECT FROM FROST

Triple Rinse Containers, Puncture and Invert to Dry at time of Use

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NET CONTENTS : 5 LITRES e