

RETURN LEAFLET TO
POCKET AFTER USE



HILITE

A FOLIAR APPLIED HERBICIDE FOR USE IN PARKS, HIGHWAYS, PAVED AREAS, INDUSTRIAL AND FACTORY SITES, IN HORTICULTURE AND FORESTRY, IN PASTURE AND IN GREEN COVER ON LAND NOT BEING USED FOR CROP PRODUCTION, AROUND THE FARM AND ON ARABLE FIELD MARGINS FOR THE CONTROL OF ANNUAL & PERENNIAL GRASSES AND BROAD-LEAVED WEEDS.

A pigmented oil emulsion containing 194 g/l (20.1% w/w) isopropylamine salt of glyphosate (equivalent to 144 g/l glyphosate).

MAPP 13871

IMPORTANT INFORMATION

FOR USE AS A HORTICULTURAL/INDUSTRIAL/AMENITY/FORESTRY AGRICULTURAL HERBICIDE

For use on ornamental plant production, amenity vegetation, managed amenity turf (pre-establishment use only), forest, spot treatment in pasture and in green cover on land not being used for crop production, natural surfaces not intended to bear vegetation (including sterile strips around arable fields), permeable surfaces overlying soil, hard surfaces.

Maximum individual dose: 10.0 litres of product per hectare.

Maximum number of treatments: not applicable

Latest time of application:

- Pasture : 5 days before harvest drilling or grazing
- Green Cover on land temporarily removed from production: 24 hours before cultivation
- Other Situations: Not applicable

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.



DAANGEROUS FOR THE ENVIRONMENT

VERY TOXIC TO AQUATIC ORGANISMS. MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

This material and its container must be disposed of in a safe way. Use appropriate containment to avoid environmental contamination.

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



Nomix Enviro, A Division of Frontier Agriculture Ltd,
The Grain Silos, Weyhill Road, Andover,
Hampshire, SP10 3NT Tel: 01264 388050

Contents: **750ml e**

Formulated for use with Nomix equipment.
READY FOR USE - NO MIXING
SHAKE WELL BEFORE USE

PROTECT FROM Frost

613403/22.12.11

SAFETY PRECAUTIONS

(a) 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 rubber boots during application.

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 breathe spray.

Wash all protective clothing thoroughly after use, especially the insides of gloves.

When using do not eat, drink or smoke.

Wash any contamination from skin or eyes immediately.

Wash hands and exposed skin before meals and after work.

Keep away from food, drink and animal feeding stuffs. Keep out of reach of children.

(b) Environmental Protection

Do not contaminate surface water with product or its container. Do not clean application equipment near surface water. Avoid contamination via drains.

(d) Storage and Disposal

Keep in original container, tightly closed in a safe place, Empty container completely and dispose of safely. Avoid storage for prolonged periods at temperatures above 30°C.

*The spray droplet spectra produced must be of a minimum Volume Mean Diameter (VMD) of 200 microns

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

WARNING

BEFORE USE REFER TO THE NOMIX APPLICATOR INSTRUCTIONS AND OPERATION MANUAL.

DO NOT DECANT. CONNECT DIRECTLY TO NOMIX APPLICATOR.

DO NOT ALLOW SPRAY DROPLETS TO CONTACT DESIRED PLANTS OR CROPS.

AVOID STORAGE FOR PROLONGED PERIODS AT TEMPERATURES ABOVE 30°C.

In case of emergency day or night telephone: CARECHEM 24 on 01865 407333

GENERAL INFORMATION

HILITE™ herbicide is a pigmented emulsion containing 144 gms a.e. glyphosate per litre as a ready to use formulation. It is absorbed by the foliage of plants and translocated to their root systems. The

product is recommended for the control of annual and perennial grasses and non-woody broad-leaved weeds in amenity and industrial areas, parks, highways, paved areas and factory sites. It can also be used for weed control in sterile strips around arable fields and for spot treatment of undesirable weeds in pasture and green cover on land not being used for crop production. It is also recommended for clearing vegetation prior to planting ornamental species and as directed application in shrubs, rose beds, ornamentals and in forestry areas.

HILITE herbicide is rapidly inactivated and degraded by micro-organisms in the soil.

DIRECTIONS FOR USE

Connection of the ready for use pack

Do not decant from original container, shake the pack very thoroughly and connect direct to the Nomix lance according to the directions in the Instruction and Operation manual.

Application rate

General weed control

10.0 l/ha

Annual weeds

7.5 l/ha

APPLICATION TO PAVEMENTS AND OTHER IMPERMEABLE SURFACES

Apply this product carefully. Ensure spraying takes place only when weeds are actively growing (normally March to October) and is confined only to visible weeds including those in the 30cm swath covering the kerb edge and road gully – do not overspray drains.

LANCE CALIBRATION

NOMIX 700 LANCE

- Choose a comfortable forward speed and appropriate spray width.
- Using the calibration chart, read the required flow rate for your chosen forward speed and spray width.
- Adjust the head setting to achieve the required flow rate, which should be measured using the Nomix Calibration Cup provided with the lance. The flow rate should always be checked before spraying.

CALIBRATION CHART

THE GUIDE HEAD SETTINGS ARE FOR GUIDANCE ONLY AND ARE NO SUBSTITUTE FOR THE CORRECT CALIBRATION PROCEDURE.

Disc Selection

The small square disc should be used where the spray width required is less than 60cm, e.g. shrub beds and confined areas. The narrow swath is also appropriate for application where accuracy is required, e.g. to pavement edges, obstacles (e.g. around trees, fence lines, gravestones) or for spot treatment of paved areas. Use of spray widths less than 30 cm may result in a reduced level of control.

The large serrated disc should be used where wide swaths are required e.g. extensive paved areas, and prior to planting shrubs.

CALIBRATION CHART

THE GUIDE HEAD SETTINGS ARE FOR GUIDANCE ONLY AND ARE NO SUBSTITUTE FOR THE CORRECT CALIBRATION PROCEDURE.

7.5 litres per hectare				10 litres per hectare			
30 seconds calibration time				30 seconds calibration time			
Walking speed mph (kph)				2.25 (3.6)		2.25 (3.6)	
Disc	Spray width (cm)	Mls	Guide head setting	Spray width (cm)	Mls	Guide head setting	
Spiral	15 30	4 7	A-B B-C	15 30	5 9	A-B B-C	
Square	45 60	10 14	C C	45 60	14 18	C C-D	
Serrated	75 90	17 20	C-D D	75 90	23 27	D D-E	

ONLY THOSE SETTINGS OR COMBINATION OF SETTINGS FOR THE NOMIX LANCE THAT GIVE AN APPLICATION RATE OF 7.5 L/HA OR 10 L/HA SHOULD BE USED.

When using the square spinner at narrow settings of less than 60cm, care should be taken that the spray quality is adequate to ensure small weeds receive the spray. The disc should be held low over the foliage, so that the rotation speed must be increased to achieve the desired swath width. This results in better atomisation and cover of foliage.

Timing of application

Cultivation should not be carried out prior to application for the control of perennial weeds.

Annual grasses and broad-leaved weeds should have at least 5 cm of leaf, or 2 expanded true leaves respectively at the time of application. Common couch reaches the susceptible stage of growth when tillering and new rhizome growth commence, which usually occurs when plants have 4-5 leaves. The majority of perennial broad-leaved weeds are most susceptible if treated when they are actively growing, at or near flowering but before the onset of natural or enforced die-back. It is important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur and this will need re-treatment.

Application of lime, fertiliser, organic manure and pesticides should be delayed until 5 days after application of HILITE.

Weeds controlled

HILITE controls most emerged grasses and non-weedy broad-leaved weeds. However it is important that all weeds are at the correct growth stage when treated otherwise some regrowth may occur necessitating re-treatment. HILITE will not give acceptable control of Horsetails (*Equisetum arvense*).

Long term effects on perennial weeds are variable and control cannot be expected in the year following the year of treatment.

Caution AVOID SPRAY CONTACT WITH ALL DESIRED VEGETATION

Do not use under polythene or glass

Symptoms on weeds

Leaf symptoms on treated weeds appear between 7 to 10 days in warm conditions, however in cold conditions this can take up to 20 days or more. Leaf symptoms, a reddening followed by yellowing of the foliage, usually appear first on grasses then later on broad-leaved weeds; nettles are extremely slow to show symptoms.

Effect of weather

At least 6 hours and preferably 24 hours rain-free must follow spraying. If rainfall occurs soon after treatment final weed control may be reduced and re-treatment may be necessary. Do not spray this product onto weeds suffering drought stress, waterlogging, heat or frost which prevent active regrowth and lead to weed die back, otherwise the level of control will be reduced. Do not spray in windy conditions as drift

onto desired crops or vegetation can severely damage or destroy them.

Subsequent land use

For maximum weed control, the sprayed area should remain undisturbed for 7 days after application to enable the product to be fully translocated throughout the weeds. In cold conditions, await leaf symptoms before starting any cultivation or planting. HILITE is not residual in the soil. Planting of trees, shrubs, etc. may take place 7 days after application. Grass may be sown 14 days after treatment.

Equipment hygiene

It is essential to thoroughly clean out the Nomix applicator using Nomix Universal Cleaner, especially between applying this product and other pesticides, to avoid contamination from such products.

SPECIAL AREAS OF USE

Horticulture - ornamentals:

HILITE can be used as a direct spray around the base of trees and bushes. Avoid contact of the spray with the trees and bushes - using the square disc on a 22.5 - 45 cm setting will allow accurate placement of the spray and minimise drift potential.

Forestry

HILITE can be used to control grasses and broad-leaved weeds before planting trees or as a directed spray to treat around the base of trees. Other weeds, such as woody weeds will be controlled provided they have not become too tall to be easily treated using the Nomix lance. Woody weeds should be treated between June and August, before the leaves change colour. Care should be taken to avoid contact with tree foliage or the stem of young trees. A droplet size should be chosen which is visible and which can be directed precisely.

A weed free spot around the base of the tree will improve the establishment and growth rate. Using a spot diameter of 1.2m, a 5 litre pack will treat 4,425 trees at the 10 l/ha. rate.

Amenity Woodland & Planting

- *Trees planted on roadsides, in streets, in parks and landscaped areas, and in amenity woodland.*

HILITE can be used to control weeds growing amongst trees or shrubs in amenity plantings. Avoid contact of the spray with the foliage or stem of the tree by carefully directing the spray.

- *Mature trees in parks and streets*

HILITE can also be used around mature trees. Provided the bark is not damaged (e.g. by pruning, etc.) and there are no suckers or shoots, the base of the tree need not be protected from the spray.

Amenity - Ornamental Hedges

- *Before planting.*
Vegetation should be cleared before planting hedges by applying HILITE in suitable conditions during the autumn before planting. (see Timing and Application)

- *After planting to aid establishment and in Established Ornamental Hedges.*
Hedge plants will not tolerate contact with HILITE. Weeds may be controlled by carefully directed sprays to the bottom of the hedge. Avoid contact with the foliage or stem of hedge plants.

Around Farm Buildings and Sterile Strips around Arable Field Margins

HILITE can be used to control growth on land not intended to bear vegetation around farm buildings, on sterile strips around arable fields. Do not apply within 2m of the base of hedgerows surrounding arable fields.

Pasture

The latest time of application is 5 days before harvest drilling or graving

Green Cover on Land not being used for Crop Production

The latest time of application is 24 hours before cultivating

Managed Amenity Turf

- *Preparation for seeding or laying turf.*
Treat weed growth with HILITE prior to cultivation.

Weed Resistance Strategy

There is a low risk for the development of weed resistance to HILITE. Growers are encouraged to implement a weed resistance strategy based on a) Good agricultural practices and b) Good Plant protection Practices by:

Following label recommendations

The adoption of complimentary weed control practices

Minimising the risk of spreading weed infestations

The implementation of good spraying practice to maintain effective weed control

Using the correct spray discs to maximise coverage

Application only under appropriate weather conditions

Monitoring performance and reporting any unexpected results to Nomix Enviro

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.

CONDITIONS OF SALE

The following shall form part of any contract of sale of this product whether sold by the manufacturer or a subsequent owner ('The Seller').

1. The seller warrants that the product complies with the product specification prevailing at the date of sale which is obtainable from the Seller on request provided that (except to the extent any claim is in respect of personal injury or death) the said Seller's liability, for breach of this warranty is limited to the price of the products involved in the breach.
2. Except as aforesaid, all conditions and warranties statutory or otherwise and expressed or implied as to the quality of the product or its fitness for any purpose are expressly excluded.
3. Except as aforesaid the Seller shall not be under any liability other than for personal injury or death whether in contract or in tort for any loss or damage arising out of or resulting from the use of the product.
4. The Seller shall in no event be liable for any loss or damage caused by the failure of any person to use the product in accordance with the instructions for use given by The Seller.

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