CREDIT®

Contains 540 g/l Glyphosate (acid equivalent) present as 715 g/L isopropylamine and ammonium salts

A foliar applied herbicide for the control of annual and perennial grasses and broad-leaved weeds before sowing or planting all crops. For use pre-emergence and pre-harvest in cereals, oilseed rape and certain other crops, destruction of grassland, and in stubbles, orchards, forestry, non-crop areas and on set-aside land.

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY/INDUSTRIAL HERBICIDE

Crops/situations:

Wheat, barley, oats, durum wheat;

Oilseed rape;

Mustard:

Combining peas,

All edible crops (stubble), All non-edible crops (stubble);

Grassland:

Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil. hard surfaces:

Amenity vegetation

All edible and non-edible crops (destruction, before sowing/planting);

Apple and pear:

Plum, cherry and damson;

Linseed:

Forestry (weed control), Forest (chemical thinning by injections), Forest (stump), Green cover on land not being used for crop production;

Maximum individual dose:

Maximum number of treatments: Latest time of application:

} Full details are given

on the attached leaflet (see Crop Specific Information)

Risk and Safety Information

May cause long term adverse effects in the aquatic environment

Keep out of reach of children

Keep away from food, drink and animal feedingstuffs

If swallowed, seek medical advice immediately and show this container or label This material and its container must be disposed of in a safe way

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

PCS No. 02932

15L PROTECT FROM FROST FOR PROFFESIONAL USE ONLY

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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.

WARNINGS

TAKE EXTREME CARE TO AVOID SPRAY DRIFT

DO NOT MIX. STORE OR APPLY CREDIT IN GALVANISED OR UNLINED STEEL CONTAINERS OR SPRAY TANKS. DO NOT leave spray mixtures in tank for long periods and make sure tanks are WELL VENTED.

RESTRICTIONS

- A period of at least 12 hours and preferably 24 hours rainfree must follow spraying.
 Do not spray onto weeds which are naturally senescent, or where growth is impaired by drought, high temperatures, a
- covering of dust, flooding or frost at, or immediately after application, otherwise poor control may result.

 Do not spray in windy conditions as drift onto desired crops or vegetation could several dynange or destroy them.

 As CREDIT takes a few days to fully translocate throughout a weed, applications of lime, fertiliser, farmyard manure and pesticides should be made 5 days or more AFTER application of this product.

 • Keep stock out of treated areas for seven days to allow the herbicide to become fully effective.

TREATED POISONOUS PLANT SPECIES MUST BE REMOVED BEFORE REGRAZING OF CONSERVING.

WEED RESISTANCE STRATEGY

There is low risk for the development of weed resistance to CREDIT.

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 nozzles to maximise coverage

Application only under appropriate weather conditions
 Monitoring performance and reporting any unexpected results to Nufarm UK Limited.

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. Please contact the product manufacturer for more information (Nufarm).

WEEDS CONTROLLED

CREDIT is a foliar acting herbicide which controls annual and perennial grasses and most broad-leaved weeds when used as directed. It is translocated from treated vegetative growth to underground roots, rhizomes or stolons.

PERENNIAL GRASS WEEDS MUST HAVE A FULL EMERGENCE OF HEALTHY, GREEN LEAF WHICH IS GROWING ACTIVELY 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 EACH WITH 10-15CM OF NEW GROWTH

THE MAJORITY OF PERENNIAL BROAD-LEAVED WEEDS ARE MOST SUSCEPTIBLE IF TREATED WHEN THEY ARE GROWING ACTIVELY AND AT, OR NEAR, FLOWERING STAGE.

ANNUAL WEEDS SHOULD BE GROWING ACTIVELY, WITH GRASSES HAVING AT LEAST 5 CM OF LEAF AND BROAD-LEAVED WEEDS AT LEAST 2 EXPANDED TRUE LEAVES WHEN SPRAYED.

It is important that all weeds are at the correct growth stage when treated, otherwise some re-growth may occur and this will require re-treatment.

This product will not give acceptable levels of control of horsetails (Equisetum arvense). Repeat treatment will be necessary. Weeds become less susceptible to CREDIT when their growth is restricted by natural senescence or by drought, frost, high temperature, a covering of dust or flooding. Reduced control will result if such conditions occur at, or immediately after, spraying.

TANK MIXTURES

Nufarm recommends that CREDIT can be tank-mixed with the following adjuvants:

Bonus (92242) Frigate (91690)

Where conventional hydraulic sprayers are being used:

• Bonus should be added to the spray tank solution at the rate of 1.0 litre for each 100 litres water volume;

Frigate should be added to the spray tank solution at the rate of 0.5 litres for each 100 litres water volume.

Grassland Treatments

Application rate – 2.0 l/ha + approved adjuvant Chickweed, mouse-ear Mavweed Mayweed species Ryegrass, Italian Dock seedlings Meadow-grass, annual Speedwell species Meadow-grass, rough Fescue, meadow Tímothy Foxtail, meadow Application rate - 2.67 I/ha + approved adjuvant Bent, common Cocksfoot Plantains ₄ Ryegrass, perennial Soft-grass, creeping Yorkshire fog Bent, creeping Couch, common Bent, black Dock, broad-leaved Brome, soft Dock, curled Application rate - 3.33 l/ha + approved adjuvant Bracken* Netfle, common Sowthistle, perennial Buttercup, creeping Rush, soft Thistle, creeping Clover, red Sedaes Thistle, dwarf Daisy Sheep's sorrel Thistle, spear Hairgrass, tufted Sorrel, common Yarrow

Application rate – 4.0 I/ha + approved adjuvant
Clover, white*
Nardus (Mat grass)

Fescue, red Ragwort, common Fescue, sheep's Rush, hard

Molinia (Purple Moor-grass)

Forestry Treatments

These recommended application rates refer to use in forestry areas only. If used in agricultural or horticultural situations inadequate weed control will result.

Application rate

Lowland Britain – 1.0l/ha + approved adjuvant Upland Britain – 1.33 l/ha + approved adjuvant

Bent, black Hair grass, tufted Hair grass, tufted Other Bent species Hair grass, wavy Gocksfoot Madadow grasses Couch, common Moor-grass, purple Fescues Oat-orgas false

Soft-grass, creeping Vernal, sweet Wood Small-reed (Bush grass)

Rush, heath

Rush, iointed

Rattle, yellow

BREAKDOWN AND FOLLOWING CROPS

All edible or non-edible crops may be sown or planted at specified intervals following the use of this product.

Occasionally, a slight check to crop growth may occur, particularly after direct drilling, when crop seeds germinate amongst a mass of decaying foliage, stolons, rhizomes or roots. Thorough cultivations are necessary to disperse or bury the decaying organic matter.

Consolidate loose soils and ensure crops are adequately fertilized and appropriate measures are taken to prevent insect and fundal damage to the following crop, especially where following grassland.

^{*} Correct stage of growth at treatment is important. White clover is best cut in June and sprayed 1 month later.
** At full frond expansion.

CROP SPECIFIC INFORMATION

| FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY/INDUSTRIAL HERBICIDE | | | | | |
|--|--|--|---|--|--|
| Crop | Max individual dose (L product/ha) + approved adjuvant | Max total dose (L product/ha / crop situation / annum) | Latest time of application | | |
| Winter wheat (including durum wheat), winter barley, winter oats, spring wheat, spring barley, spring oats. | 2.67 | 2.67 | 7 days before harvest | | |
| Oilseed rape | 2.67 | 2.67 | 14 days before harvest | | |
| Linseed | 2.67 | 2.67 | 14 days before harvest | | |
| Mustard | 2.67 | 2.67 | 14 days before harvest | | |
| Combining Peas | 2.67 | 2.67 | 7 days before harvest | | |
| Post planting and pre-emergence of listed cereals, oilseed rape, combining peas, vining peas, field beans, mustard, linseed, sugar beet, swedes, turnips, bulb onions and leeks | 1.0 | 1.0 | Pre-emergence | | |
| All edible crops (stubble), All non-edible crops (stubble) | 2.67 or 1.0 | 1.0 | Five days before drilling or planting of the following crop Two days before drilling or planting of the following crop | | |
| Grassland | 4.0 | 4.0 | Five days before harvest, grazing or drilling | | |
| Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil, hard surfaces | 40) | - | - | | |
| Amenity vegetation | 8.33 | - | - | | |
| All edible and non-edible crops (destruction, before sowing/planting) | 4.0 | - | Before planting or sowing | | |
| Apple and pear orchards | 3,33 | 3.33 | After harvest (post leaf-fall) but before green cluster | | |
| Plum, Cherry and damson orchards | 3.33 | 3.33 | After harvest (post leaf-fall) but before white bud | | |
| Forest (Weed control) Forest (Chemical thinning by injection) - Forest (Stump) | 6.67 1.33 ml product per cut per (+) 10 cm diameter (or less) tree (+) See 'other specific restrictions' (+) | | | | |
| Green cover on land not being used for crop production | 3.33 | 3.33 | | | |

Other specific restrictions

When using with rotary atomiser knapsack sprayers the minimum water volume must be 20 L/ha

(+) CREDIT does not need to be mixed with an authorised adjuvant

Weedwipers may be used in any crop where the wiper does not touch the growing crop.

Maximum concentrations used must not exceed the following:
Weedwiper mini
Other wipers
1:2 dilution with water
Stump treatment
13.33% solution in water

PRE-HARVEST WHEAT (including DURUM WHEAT) BARLEY AND OAT

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|---|---------------------------------|-----------------------------------|
| Common couch | Up to 25 shoots/m² | 1.33 | Hydraulic sprayers 80-250 l/ha |
| | 26 to 75 shoots/m ² | 2.0 | |
| | Over 75 shoots/m² In direct drilled crops | 2.67 | P |
| Perennial broad-leaved weeds, other perennial grasses | All levels of all species | 2.67 | |
| Harvest Management | Annual grasses, Cereal stems, Cereal leaves | 0.67 | |
| | Annual broad-leaved weeds | 1.0 | |

Application Guidance: Apply when the moisture content of the youngest crop grains is below 30%, not less than 7 days before harvest and up to 14 days before harvest for volunteer wheat and wheat crops. Use high clearance tractors with narrow wheels and crop dividers. DO NOT TREAT CROPS GROWN FOR SEED. Straw may be used for all purposes except as a horticultural mulch. After harvest, chop/incorporate or remove shaw as required. Normal cultivations may be made after straw removal.

NB If dull weather persists after application, allow up to 14 days before harvest – particularly on broad-leaved weeds. Annual nettle, Vol. Potato, Rosebay willowherb and the Polygonum weeds will not be susceptible at Harvest Management rates.

PRE-HARVEST OF OILSEED RAPE AND MUSTARDS

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|-------------------------------|---------------------------------|---|
| Crop desiccation prior to direct combine harvesting | 18 | 2.0 | Hydraulic sprayers only 100-250 l/ha |
| Common couch | Up to 75 shoots/m² | 2.0 | |
| | Over 75 shoots/m ² | 2.67 | |
| Annual weeds | All levels of all species | 2.0 | |
| Perennial broad-leaved weeds, other perennial grasses | All levels of all species | 2.67 | |

Application Guidance: Apply when crop seeds have under 30% moisture content. Apply to standing crops at these intervals before harvest: Oilseed rape – 14-21 days, Mustards – 14 days. Use high clearance narrow wheeled tractors using wide booms and crop dividers. DO NOT TREAT CROP'S GROWN FOR SEED. For effective combining: DO NOT treat or treat crops with significant levels of secondary re-growth. DO NOT treat tate maturing areas of crops affected by pigeon damage, poor drainage, etc. Crops suffering from stress factors, disease, extreme heat or drought may not mature evenly following treatment. After harvest, chop/incorporate or remove straw as required. Normal cultivations may follow after straw removal.

PRE-HARVEST OF PEAS FOR COMBINE HARVESTING

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|--------------------------------|---------------------------------|---------------------------|
| Common couch | Up to 75 shoots/m ² | 2.0 | Hydraulic sprayers 80-250 |
| | Over 75 shoots/m ² | 2.67 | I/ha |
| Annual weeds | All levels of all species | 2.0 | |
| Perennial broad-leaved weeds, other perennial grasses | All levels of all species | 2.67 | |

Application Guidance: Apply when crop seeds have under 30% moisture content. Apply 7 days or more before harvest. This treatment cannot be used as a crop desiccant. Use high clearance tractors with narrow wheels and crop dividers. DO NOT TREAT CROPS GROWN FOR SEED.

PRE-HARVEST OF LINSEED

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|--------------------------------|---------------------------------|--|
| Crop desiccation prior to direct combine harvesting | | 2.0 | Hydraulic sprayers only 80-250 l/ha |
| Common couch | Up to 75 shoots/m ² | 2.0 | |
| | Over 75 shoots/m² | 2.67 | |
| Perennial broad-leaved weeds, other perennial grasses | All levels of all species | 2.67 | |

Application Guidance: Apply when crop seeds have under 30% moisture content. At this stage seed is normally light brown and the capsules are brown; the stems and leaves may be green to yellow/green. Accurate measurements of moisture content must be made. Apply 14 days or more before narvest. Where application takes place in the autumn, it must be checked that weeds are still susceptibile, see earlier section on timing of application and weeds susceptibility. A delay of up to 28 days after spraying may be necessary prior to combine harvesting. DO NOT TREAT CROPS GROWN FOR SEED.

PRE-EMEGENCE OF THE CROP

| Crop Situation | Weed Infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|---------------------------------------|---------------------------------|--|
| Cereals Oilseed Rape Mustard Linseed Peas Field Beans Sugar Beet Swede Turnip Bulb Onion Leek | Ail levels of all annual weed species | 1.0 | Hydraulic sprayers only 80 – 250 L/ha |

Application Guidance: Ensure that spraying precedes ANY Crop emergence

STUBBLES OF ALL CROPS - AUTUMN/SPRING APPLICATIONS

| | | Rate (L/ha) + approved adjuvant | Water volume |
|---|--------------------------------|---------------------------------|--------------------|
| Common couch | Up to 75 shoots/m ² | 2.0 | Hydraulic sprayers |
| | Over 75 shoots/m² | 2.67 | 80-250 l/ha |
| Other perennial grasses Volunteer potatoes (autumn only) | All levels of all species | 2.67 | |

Application Guidance: Do not cultivate BEFORE spraying. Allow a minimum of five days to elapse between spraying and cultivations or drilling. Allow volunteer potatoes to make ample top growth before spraying. A minimum period of 21 days weed growth in the spring should occur before spraying.

STUBBLES OR PRE-CULTIVATED LAND AUTUMN OR SPRING

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|---------------------------|---------------------------------|-----------------------------------|
| Volunteer cereals Other annual grasses, An- nual broad-leaved weeds | All levels of all species | 1.0 | Hydraulic sprayers 80-250 I/ha |

Application Guidance: Cultivations may be made 24 hours after spraying. Direct drilling may take place two days after spraying.

SET-ASIDE - GREEN COVER ON LAND TEMPORARILY REMOVED FROM PRODUCTION

| Target | Weed infestation | on _ | Rate (L/ha) + approved adjuvant | Water volume |
|---|---|----------------------------------|--|-----------------------------------|
| Before or during removal | Common couch | | Population < 75 shoots/m² - 2.0 | Hydraulic sprayers 80-250 l/ha |
| from production | | | Population > 75 shoots/m ² - 2.67 | 80-250 I/IIa |
| | Perennial broad- other perennial | leaved weeds and grasses | 2.67 | |
| | Annual weeds - Autumn/Spring of year 1 only | | 1.0 | |
| | - Summer of yea | ar 1 and thereafter | 2.0 | |
| After short rotation or long term removal from production | Natural regeneration and cover crop | Annual weeds | 2.0 | |
| production | destruction | Perennial grasses | 2.67 | |
| | | Perennial broad- leaved weeds | 3.33 | |

Application Guidance: Perennial weeds should have grown actively for at least 21 days before spring applications. Perennial weeds – apply not less than 5 days before drilling or cultivating. Annual weeds – apply not less than 24 hours before cultivation. Note:

- Ensure that all management rules are followed prior to use on land taken out of production as part of a grant aided scheme
- · Do not top or cultivate before spraying
- Do not direct drill after set-aside.

The best control of annual grasses is achieved from applications at full ear emergence or before stem elongation. Avoid application during stem elongation as reduced control and re-spray is likely.

GRASSLAND DESTRUCTION AND CONTROL OF ASSOCIATED WEEDS

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|------------------------------|---------------------------------------|----------------------------|
| Short-rotation Ryegrass with annual weeds | See under 'Weeds controlled' | 2.0 | Hydraulic sprayers 150-250 |
| Leys 2-4 years old with perennial grass weeds | See under 'Weeds controlled' | 2.67 | I/ha |
| Long leys 4-7 years old with perennial broad-leaved weeds | See under 'Weeds controlled' | 3.33 | |
| Permanent pasture – select application rate to control the least susceptible target weed | See under 'Weeds controlled' | 4.0 | |

Application Guidance: DO NOT apply lime or fertiliser prior to CREDIT application.

Treatment timings:

- Re-growth after grazing or mowing.
- 2. Before grazing or cutting.
- Apply between June-October
 Spray crops that are 30-60cm tall, are not dense and do not contain mature seeds

Grass utilization

- Grass may be utilized in the normal way from 5 days after treatment.
- Cattle, Dairy cows and Sheep may graze or be fed the treated forage.

 POISONOUS PLANT SPECIES MUST BE REMOVED OR BURIED BEFORE RE-GRAZING OR MOWING.

Normal cultivations for the next crop may be made as usual once fields are cleared of grass crops. Grass and clover may be direct drilled following application of CREDIT to: (a) 1-2 year old levs without mat all surface trash should be removed before drilling, 5 days after spraying, or (b) long leys with some mat: CREDIT should be applied in the autumn and direct drilling delay until the following spring.

LAND NOT INTENDED TO BEAR VEGETATION

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|------------------|---------------------------------|---------------------------|
| Annual weeds | All species | 1.0 | Hydraulic sprayers 80-250 |
| Perennial grasses | All species | 2.67 | I/ha |
| Perennial broad-leaved weeds. Destruction of established vegetation prior to sowing (Refer to section "Hand-held applicators". | All species | 4.0 | |

Application Guidance: Use areas include: Clearance of land prior to sowing, Weed control in fence lines, stockyards, around buildings and storage areas, Roads paths and ditch edges, Re-growth in root crop storage areas. DO NOT USE IN OR ALONGSIDE HEDGEROWS. DO NOT USE UNDER GLASS OR POLYETHYLENE.

AMENITY VEGETATION

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|------------------|---------------------------------|---------------------------|
| Annual weeds | All species | 1.0 | Hydraulic sprayers 80-250 |
| Perennial grasses and broad-leaved weeds | All species | 2.67 - 3.33 | l/ha · · |

Application Guidance: For vegetation management in areas of semi-natural or ornamental vegetation including trees. Areas of

bare soil around ornamental plants or areas intended for ornamental planting. Hydraulic sprayers or weed wipers may be used DO NOT USE IN OR ALONGSIDE HEDGEROWS. DO NOT USE UNDER POLYTHENE OR GLASS

TOP FRUIT ORCHARDS - PRE-PLANTING

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|---------------------------|---------------------------------|--------------------------------|
| Perennial grasses and broad-leaved weeds | All levels of all species | | Hydraulic sprayers 80-250 l/ha |
| in arable stubbles | | 2.67 | |
| in pastures | | 3.33 | |

Application Guidance: Refer to "Timing of Application", All top fruit crops may be planted from seven days after spraying.

TOP FRUIT ORCHARDS - WITHIN ORCHARDS OF APPLE, PEAR, PLUM, CHERRY OR DAMSON

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---|-------------------------|---------------------------------|---|
| Perennial grasses and broad-leaved weeds | All levels most species | 3.33 | Hydraulic sprayers 200-400 I/ha. Optimum 250I/ha |
| Root suckers (late spring treatment only) | All species | 3.33 | |

Application Guidance: Trees must have been established for two years before spraying. Spray after fruit trees have lost all their leaves in autumn, or before green clusters stage of apple and pear or white bud stage of stone fruit in spring. Avoid contact with tree branches and trunks above 30cm from the groupd.

FORESTRY - PRE-PLANTING

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|---------------------------------|------------------|---------------------------------|---------------------------|
| Arable land and planting | Arable weeds | 2.67 | Hydraulic sprayers 80-250 |
| Re-planting and grassland areas | Grassland weeds | 3.33 | I/ha ' , |

Application Guidance: All tree species may be planted 7 days or more after treatment.

FORESTRY - POST-PLANTING (DIRECTED)

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|---|---|--|
| Clean-up around trees with knapsack applications | Grasses: annual & perennial, and broad-leaved weeds | 2.67 | Knapsack sprayers (hydraulic). Apply at a |
| Conifer release | Woody weeds: Bracken, Beech Brush, Brambles Sycamore, Oak, Hazel Willow, Ash Heather (peat soils) Heather (mineral soils) Rhododendron [.] | 2:0 2:0 2:0 2:0 2:67 4.0 6.67 | concentration of 1 part of CREDIT with 200-250l/ha. Spot gun and weedwiper mini – see application section. |

Application Guidance: It is ESSENTIAL to use a TREE GUARD for all applications made in the growing season. Treat bracken after frond tips are unfurled but pre-senescence. Treat Heather late August to end September. All other woody weeds - treat June-August before leaf senescence (but after new growth of crop has hardened). [.] for improved control of Rhododendron add High Trees Mixture B at a concentration of 2% final water volume to 5.33 tha of CREDIT. For Rhododendron control cut back and treat re-growth at least 1 metre in height throughout the entire coppice.

FORESTRY - POST-PLANTING (OVERALL DORMANT SEASON)

| Target weed | Weed infestation | Rate (L/ha) + approved adjuvant | Water volume |
|--|------------------------------|---------------------------------|---|
| Grass weeds - Lowland areas - Upland areas | See under 'Weeds controlled' | 1.0 1.33 | Hydraulic sprayers 80-250 l/ ha or Hand-held equipment – see Application section. |
| Bracken, Beech and Birch Brambles | All levels of all species | 1.33 1.33 2.0 | |

Application Guidance: DO NOT OVERALL SPRAY trees being grown for ORNAMENTAL PURPOSES, including CHRISTMAS TREES. Species safe to spray when fully dormant and leader growth has hardened: Corsican, Lodgepole, and Scots Pines, Norway Spruce, Sitka Spruce, Lawson Cypress. Western Red Cedar. Douglas Fire - safe to spray when fully dormant and leader growth has hardened but NOT in spring. If overall application takes place after the optimum timing weed control may be reduced. It is advisable to spray a limited area of forest to test crop safety under local conditions before widespread overall application in subsequent years. Treat bracken after frond tips are unfurled but pre-senescence.

CAUTION: the timing of hardening of leader growth varies between locations and seasons. It may occur as early as the end of July or be delayed to October or later. To avoid damage to Lammas growth, sprays should be directed away from leaders.

FORESTRY - STUMP APPLICATION FOR CHEMICAL THINNING

| | | | $\overline{}$ | |
|---|--------------------|--|---------------|---|
| Target weed | Weed infestation | Rate (L/ha) | | Water volume |
| Prevention of coppicing and re-growth from stumps | Deciduous species | 6.6% solution of CREDIT in water 13.3% solution of CREDIT in water | | Hydraulic sprayers 80-250 l/ ha or Hand-held equipment |
| | Coniferous species | | | see Application section. |

For stump application CREDIT does not need to be mixed with an adjuvant.

Application Guidance: Apply to saturate the freshly cut stump. (Hand-held sprayers – see page 19).
 - Clearing saw fitted with Enso attachments.

- - Knapsack sprayer operated at low pressure. -- Spot gun fitted with a solid stream nozzle. -- Paintbrush.

Treat stumps within a week of felling from November to March (outside spring sap flow). Do not cut trenches or drill holes and fill with the solution or use undiluted product.

FORESTRY - CHEMICAL THINNING BY INJECTION OF TREE STUMPS

| Target weed | Weed infestation | Rate (L/ha) | Water volume |
|----------------------------------|------------------|--|--------------|
| Coniferous and Deciduous species | . 73 | 1.33ml neat CREDIT per cut per 10cm diameter of stem (or less) | - |

For stump application CREDIT does not need to be mixed with an adjuvant.

Application Guidance: Use a hatchet to cut one notch in trees up to 10 cm diameter and apply 1.33ml of the solution to each cut e.g. using a spot gun. Use two or three notches in trees over 10 cm diameter. Do not treat in the period of active sap flow in the spring/early summer.

SPRAY APPLICATION EQUIPMENT AND TECHNIQUES Tractor mounted applicators

Conventional hydraulic sprayers.

Sprayer and nozzle selection
All machines capable of applying accurately 80-250 l/ha, as a 'MEDIUM' or COARSE quality spray - (BCPC definition) within a pressure range of 1.5-2.5 bars using 80° or 110° nozzles, may be used. For application pre-harvest of crops it is essential to use a sprayer whose boom may be raised to the correct height.

Water volume:

For general use 200-250 l/ha is the preferred volume range. For specific uses, volumes may be reduced to 80-120 l/ha by selecting low volume hydraulic nozzles and adjusting pressure of application and tractor forward speed.

Spray pressure
Pressures must be related to tractor forward speed, desired water volume and nozzle type. A range of 1.5-2.5 bars must be used to ensure optimum results with minimum risk of drift.

Tractor forward speed Speed of travel must be related to nozzle output characteristics. The typical range is from 4-9kph. The slower speeds should be selected for applications pre-harvest of crops and where soil conditions could cause excessive boom bounce and vaw at the faster speeds.

Recommended Nozzle type, pressure, volumes and tractor speeds for the application of 80-120 l/ha 80° or 110° nozzles able to apply the required volume at pressures between 1.5-2.5 bars at between 4-9kph are recommended. Examples of these nozzles are available in a separate handbook.

Filling the sprayer
Half fill the spray tank with water and start agitation. Add recommended quantity of CREDIT herbicide, top-up tank with water to required level. Before using a sprayer and, especially, after nozzles have been changed, it is essential to calibrate the sprayer by checking the output of at least one nozzle for each separate boom section of the sprayer.

Before using the sprayer and, especially, after nozzles have been changed, it is essential to calibrate the sprayer by checking the output of at least one nozzle for each separate boom section of the sprayer.

Operation in the field Check the following before starting to spray: - that the nozzles are aligned evenly at the correct angle to the direction of travel; that the boom is level over its width: - that the boom height permits the correct pattern of spray overlap on the target weeds.

Sprayer maintenance
Ensure that the sprayer is in good working order by paying particular attention to the condition of the pump, hoses, nozzles
or disc assemblies and pressure gauge. Replace damaged, worn or malfunctioning parts. If extra filtration or pressure damp
valves have been fitted for low volume work at 80-120 the make certain this equipment is clean and functioning correctly.
Carry out maintenance according to the instructions of the sprayer manufacturer. This is of utmost importance when using low volume nozzles.

Hygiene when using all sprayers

It is essential to thoroughly clean out sprayer tanks, pumps and pipelines and nozzle or disc assemblies, with a recommended detergent cleaner, between applying this product and other pesticides to avoid contamination from pesticide residues.

Hand-held applicators

OVERALL, NON-SELECTIVE APPLICATIONS

Spot or directed application

Knapsack applicator: These may be used in Forestry, Orchards and non-crop areas. Normal water volume is 200-300 l/ha but by fitting low volume nozzles it can be reduced to 100-150 l/ha. All applications to be as a MEDIUM or COARSE quality spray (BCPC definition).

Example of use:

At a walking speed of 1m/sec and with a 1m wide swath most knapsack sprayers fitted with a Lurmark AN 2.0 or similar nozzle deliver 200 l/ha spray volume. To apply 2.67 l/ha of CREDIT use 26 ml of product for each 2 litres of spray liquid required.

Spot gun:

This applicator may be used to apply an accurately measured dose of CREDIT herbicide spray solution for the spot treatment of weeds.

Amount of CREDIT (ml) per 5 litres of spray solution when the Spot Gun is fitted with the TG-SS2.8W nozzle, using a setting of 5ml per squeeze of the trigger:

| Spot diameter (m) | Application rate of CREDIT (ml) | | | | |
|-------------------|---------------------------------|-----|-----|--|--|
| | 2.0 l/ha 2.67 l/ha 3.3 l/ha | | | | |
| 0.3 | 80 | 100 | 150 | | |
| 1.0 | 120 160 240 | | | | |

Treatment of individual weeds

Individual weeds may be treated using the Spot Gun fitted with a narrow angle cone nozzle, either the TG-3 or TG-5 nozzle. The spot diameter will increase with the distance of the target weed from the nozzle tip. Amount of CREDIT (ml) per 5 litres of spray solution when the Spot Gun is fitted with the TG-3 or TG-5 nozzle, using a

Amount of CHEDIT (mi) per 5 litres of spray solution when the Spot Gun is fitted with the TG-3 of TG-5 hozzle, using a setting of 5ml per squeeze of the triager:

| Spot diameter (m) | Application rate of CREDIT (ml) | | | | |
|-------------------|---------------------------------|----|----|--|--|
| | 2.0 l/ha 2.67 l/ha 3.3 l/ha | | | | |
| 0.3 | 13 | 19 | 23 | | |
| 0.6 | 57 | 73 | 93 | | |

- Tree injection

The applicator must be fitted with a solid stream nozzle, either a Spraying System 0006 or a Delavan LF 6.0. Set the gun to apply 1.33ml of neat CREDIT per cut.

Stump Treatments

The applicator must be fitted with a narrow angle cone nozzle, either the TG-3 or TG-5 or solid stream nozzle tips either a Delavan LF 6.0 or Spraying Systems 0006.

Set the gun to deliver 3.33ml per squeeze and select the concentration of CREDIT according to usage recommendations. A dose of 3.33ml should be applied for each 5cm diameter of tree stump.

Cut stump application

Enso attachment to rotary saws

This technique is specific to scrub clearance in Forestry. The water soluble dye Methyl Violet Gurr may be added to CREDIT at a concentration of 0.01% to help identify treated stumps. This is equivalent to the addition of 1ml of dye to 10 litres of spray liquid. The dye may be obtained from: BDH Chemicals Ltd., Freshwater Road, Dagenham, Essex RM18 1RZ. Tel: Poole (020002) 745520 – BDH Technical Services.

Tractor-mounted wipers

Treatment of sugar beet bolters, weed beet and other weeds: For use in arable crops, grassland and forestry areas. Ensure there is at least 5 cm between the top of the tellest desired vegetation and the impregnated wiper. Weeds should be a minimum of 10 cm taller than the desired vegetation for sate application. Two passes in opposite directions will be needed where weeds are dense and successive applications will be required to control weeds that were below the original wiping level. Treat before weed seeds have matured to reduce to a minimum seed return to the soil, Bolting beet should be treated by a series of three applications during early July to early August with two weeks between treatments.

WEEDS MUST BE GROWING ACTIVELY TO BE SUSCEPTIBLE. DO NOT USE WIPER TECHNIQUES IN SOFT FRUIT CROPS.

Recommended machines and dilution rates

Hectaspan Weedwiper Keenan Weed Licker Matrot Mobilcord Tecnoma Top Weeder Telford Homburg Chemical Applicator Vicon Wedge-Wik

The recommended concentration is at least one part of CREDIT herbicide to two parts water. Under hot, dry, conditions a concentration of one part of CREDIT herbicide to two parts water is preferred.

For best results with all wiper applicators

- Operate at speeds below 5 kph.
- Treat when weeds reach 10 cm above the desired vegetation.
- Keep wiping surfaces wet but prevent dripping.
- Clean ropes several times a day to maintain optimum flow rate.

ACKNOWLEDGEMENTS

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TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by Nufarm UK Ltd. are high grade and we believe them to be suitable for the purpose for which we An goods supplied by Nutariii OK Ltd. are high grade and we delieve their mixing, us or application which may affect the expressly supply them: but as we cannot exercise any control over their mixing, us 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.

SAFFTY DATA SHFFT

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING Product information

Trade name : Credit Usage: herbicide

Nufarm UK Limited Company :

Wyke Lane Wyke Bradford

West Yorkshire BD12 9EJ

Emergency telephone number: +44 (0)1274 696603

2. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS Aqueous solution

Chemical nature:

Contains Glyphosate

| Components | | EINECS-No. ELINCS-No. | Symbol(s): | F(-) | Concentration (w/w) |
|---------------------|------------|--------------------------|------------|--------|------------------------|
| Glyphosate IPA salt | 38641-94-0 | 254-056-8 | N | R51/53 | 53.1% |

4. FIRST AID MEASURES

Eye contact: Rinse immediately with plenty of water, also

under the eyelids, for at least 15 minutes Obtain medical attention

Skin contact: Take off all contaminated clothing immediately

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Wash contaminated clothing before re-use. Inhalation: Move to fresh air. If symptoms persist, call a physician. Ingestion: Do not induce vomiting. Rinse mouth.

If conscious, drink plenty of water. If symptoms persist, call a physician.

Notes to physician

Treatment: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Specific hazards during fire

In the event of fire (NOx.COx.P2O5) may be formed. fighting: Special protective equipment for fire-fighters:

> Use personal protective equipment. Wear self contained breathing apparatus for fire fighting

if necessary. Suitable extinguishing media:

water spray, carbon dioxide (CO2), dry powder,

alcoholresistant foam Extinguishing media which must not be used for safety reasons: high volume water jet

Further information:

Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Wear personal protective equipment. (see Chapter 8)

Environmental precautions:

Do not flush into surface water or sanitary

sewer system.

Methods for cleaning up:

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Sweep up and shovel into suitable

containers for disposal.

Additional advice :

Never return spills in original containers

for re-use.

7. HANDLING AND STORAGE

Handling

Safe handling advice: Wear personal protective equipment. Storage

Requirements for storage areas and containers:

Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Protect from frost.

Advice on common storage: Keep out of reach of children. Keep away from food, drink and animal

feeding stuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION Personal protective equipment

Respiratory protection:

No special protective equipment required.

Hand protection:

PVC or nitrile-rubber gloves

Eye protection:

safety glasses, or, goggles

Skin and body protection :

Hygiene measures :

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Protective measures:

Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES Appearance

Form: liquid Colour: yellowish Odour: amine-like

Other data

Flash point: does not flash Density: 1.235 g/cm3 at 20 °C

Water solubility :

completely miscible

pH: 4.5 - 4.9 at 29.3 g/l Partition coefficient (noctanol/water):

log POW = -3.2 at 25 °C (Glyphosate

Viscosity, dynamic :

104.4 mPa.s at 20 °C Surface tension :

72.5 mN/m at 20.4 %

10. STABILITY AND REACTIVITY

Conditions to avoid : none under normal use Materials to avoid : strong bases

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : I D50 rat

Dose: > 2,000 mg/kg
Acute dermal toxicity:

LD50 rat Dose: > 2,000 mg/kg

Skin irritation: Result: No skin irritation Eye irritation: Result: No eye irritation Sensitization: Result: Not sensitizing to skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish: Dose: > 100 mg/l Toxicity to daphnia :

Dose: > 100 mg/l

Toxicity to algae:

Dose: > 100 mg/l

13. DISPOSAL CONSIDERATIONS

Product: Dispose of product and packaging in

accordance with The Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging:

Do not dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of accepting pesticides in compliance with applicable

regulations.

According to European Directive 2000/532/EC as amended:

Waste Key Number :

02 01 08 (agrochemical waste containing dangerous substances)

14. TRANSPORT INFORMATION

UADR/RID: Not a dangerous substance as defined in the

above regulations.

UIMDG: Not a dangerous substance as defined in the

above regulations.

UIATA-DGR: Not a dangerous substance as defined in the

above regulations.

15. REGULATORY INFORMATION

labelling according to EEC Directive:

EEC/99/45

R-phrase(s): R53 May cause long-term adverse effects in

the aquatic environment.

Other regulations:

The product is classified and labelled in accordance with National and European

directives.

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Contact person

The information given herein is, to the best of our knowledge, correct and is given in good faith but no warranty, expressed or implied, is given.

CREDIT®

Contains 540 g/l Glyphosate (acid equivalent) present as 715 g/L isopropylamine and ammonium salts

A foliar applied herbicide for the control of annual and perennial grasses and broad-leaved weeds before sowing or planting all crops.

A form applied nerolicide for the control of annual and perennial grasses and broad-leaved weeds before sowing or planting an crops. For use pre-emergence and pre-harvest in cereals, oilseed rape and certain other crops, destruction of grassland, and in stubbles, orchards, forestry, non-crop areas and on set-aside land.

FOR USE ONLY AS AN AGRICULTURAL/HORTICULTURAL/FORESTRY/INDUSTRIAL HERBICIDE

Crops/situations:

Wheat, barley, oats, durum wheat:

Oilseed rape;

Mustard;

Combining peas.

All edible crops (stubble), All non-edible crops (stubble):

Grassland:

Natural surfaces not intended to bear vegetation, permeable surfaces overlying soil. hard surfaces:

Amenity vegetation

All edible and non-edible crops (destruction, before sowing/planting);

Apple and pear;

Plum, cherry and damson;

Linseed;

Forestry (weed control), Forest (chemical thinning by injections), Forest (stump) Green cover on land not being used for crop production;

Maximum individual dose:

Risk and Safety Information

Maximum number of treatments: Latest time of application:

Full details are given on the attached leaflet (see Crop Specific Information)

May cause long term adverse effects in the aquatic environment Keep out of reach of children

Keep away from food, drink and animal feedingstuffs

If swallowed, seek medical advice immediately and show this container or label This material and its container must be disposed of in a safe way

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

15Le PROTECT FROM FROST FOR PROFFESIONAL USE ONLY

Nufarm UK Limited, Wyke Lane, Wyke, Bradford, West Yorkshire BD12 9EJ, United Kingdom

Technical Helpline telephone number: +44 (0)1274 694714 24-hour emergency telephone number: +44 (0)1274 696603

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