D50[®] GROUP 4 HERBICIDE Contains 500 g/l (42.7% w/w) 2,4-D as the Dimethylamine salt - Soluble Concentrate. For the control of broad-leaved weeds in cereals and arassland. IMPORTANT INFORMATION Safety Information FOR USE ONLY AS A PROFESSIONAL HERBICIDE DANGER Harmful if swallowed. Maximum Causes serious eye damage. Max No of Latest time of Crops Very toxic to aquatic life with long treatments application Dose lasting effects. **Before** Do not eat, drink or smoke when Winter wheat and rye first node 1 per crop using this product detectable Wear protective gloves/eye protection/face/protection Winter barley, winter Before If in eyes, rinse cautiously oats, spring wheat 201/ha first node 1 per crop with water for several and spring barley detectable nutes, remove Refore ptact lenses if Listed cereals sent and undersown with grass 1 per crop first node asy to do and/or clover so, continue 3.31/ha rinsina Agricultural grassland 1 per year Immediately call a doctor, a POISON Amenity grassland CENTER and managed 3 per vega Rinse mouth amenity turf Collect spillage. Dispose of contents/container READ THE LABEL BEFORE USE. JUSING THIS PRODUCT to a licensed hazardous-waste IN A MANNER THAT IS INCONSISTENT WITH THE disposal contractor or collection site LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF except for empty triple rinsed containers PRACTICE FOR USING PLANT PROTECTION PODUCTS. which can be disposed of as non-hazardous waste. Additional Safety Phrase: CONTAINS 2,4-D. May produce an alleraic reaction. Do not contaminate water with the product or its To avoid risks to human health and the environment, comply container (Do not clean application equipment with the instructions for use. near surface water/Avoid contamination via drains PCS No. 05532 from farmyards and roads). UFI: FH0Q-3J1P-8GAM-NTPQ Nufarm UK Limited Wyke Lane, Wyke, Bradford, West Yorkshire, BD12 9EJ United Kinadom Technical Helpline telephone number: +44 (0)1274 694714 24-hour emergency telephone number: +44 (0)1274 696603 PROTECT FROM FROST FOR PROFESSIONAL USE ONLY Nufarm Grow a better tomorrow 510007245 032023

MPORTANT

DIRECTIONS FOR USE This information is approved as part of the Product Label. All instructions within this section must be read carefully n order to obtain safe and successful use of this product.

RESTRICTIONS

D50 is active at low concentrations. DO NOT spray in windy conditions as the spray drift may cause damage to heighbouring crops. The following crops are particularly susceptible: Beet, Brassicaé (e.g. turnips, swedes, oilseed rape), onions, and most market garden crops including lettuce, cucumber and tomatoes under glass, pears and vines.

WASH EQUIPMENT thoroughly with water and wetting agent or liquid detergent immediately after use. Spray out, fill with clean water and leave over night. Spray out again before storing or using for another product. Traces of product can cause harm to susceptible crops sprayed later.

D50 may be applied to grassland or turf that has been established for a minimum of 12 months.

DO NOT apply during rain or if rain is expected.

DO NOT roll of harrow within a few days before or after applying D50.

DO NOT apply immediately before or after sowing any crop.

DO NOT plant succeeding crops within 3 months of applying D50

DO NOT mow or roll turf or amenity grassland for four days before or after application. The first four mowings after treatment must be composted for at least 6 months before use.

DO NOT treat cereals, grass or turf suffering from stress caused by drought, disease or other adverse factors, such as freezing conditions.

Ragwort is an 'injurious weed' and those who permit it to arow unchecked on their land are liable for prosecution under the Weeds Act (1959) – UK only

Agricultural grassland destined for hay or silage in the spring, should be sprayed in the preceding autumn.

WEEDS CONTROLLED WEED SUSCEPTIBILITY TABLE CEREALS

Weeds	Rate/ha	Level of control
Black Mustard (Brassica nigra) Charlock (Sinapis arvensis)	0.7 L	S (Cotyledon-Early flower-bud)
Fat-Hen (Chenopodium album) Field Pennycress (Thlaspi arvense) Hairy Tare (Vicia hirsute) Treacle Mustard (Erysimum chefranthoides), White Mustard (Sinapis alba)	1.4 L	S (Cotyledon-Early flower-bud)
Shepherds Purse (Capsella bursa-pastoris) Small Nettle (Urtica urens) Wild Radish (Raphanus raphanistrum)	1.4 L	S (Cotyledon-8 ETL)
Corn Buttercup (Ranunculus arvensis)	1.4 L	S (Cotyledon-2 ETL) or MR (4 ETL-Early flower-bud)
Common Orache (Atriplex patula) Common Poppy (Papaver rhoeas) Field Forget-me-not (Myosotis arvensis) Prickly Sowthistle (Sonchus asper) Smooth Sowthistle (Sonchus oleraceus) Wild Turnip (Brassica rapa)	1.4 L	MS (Cotyledon-2 ETL) or MR (4 ETL-Early flower-bud)

Black-bindweed (Polygonum convolvulus) Black nightshade (Solanum nigrum), Bugloss (Lycopsis arvensis) Common Chickweed (Stellaria media) Common fuld-speedwell (Veronica persica) Common Mouse-ear (Cerastium holosteoides) Dove's-foot Crane's-bill (Geranium molle) Field Gromwell (Lithospermum arvense) Green Field speedwell (Veronica agrestis) Groundsel (Senecio vulgaris) Ivy-leaved Speedwell (Veronica hederifolia) Knotgrass (Polygonum aviculare) Pale Persicaria (Polygonum lapathifolium) Redshank (Polygonum persicaria) Scarlet Pimpernel (Anagallis arvensis) Shephera's-needle (Scandix pectin-veneris) Sun spurge (Euphorbia helioscopia) Viper's-bugloss (Echium vulgare)	1.4 L	MR (Cotyledon-2 ETL) or R (4 ETL-Early flowerbud)
Common Orache (Atriplex patula) Common Poppy (Papaver rhoeas) Smooth Sowthistle (Sonchus oleraceus)	2.01	S (Cotyledon-4 ETL) or MR (6 ETL-Early flower-bud)
Knotgrass (Polygonum aviculare) Scentless Mayweed (Tripleurospermum maritimum)	2.0 L	MR (Cotviedon-2 ETL) or R (4 ETL-Early flowerbud)
Creeping Thistlet (Cirsium arvense)	2.0 - 2.5 L	S (Cotyledon-Early flower-bud)

S = Susceptible / MS = Moderately Susceptible / R = Moderately Resistant / R = Resistant ETL = Expanded True Leaves / t = aerial growth only.

WEED SUSCEPTIBILITY TABLE AGRICULTURAL GRASSLAND

Weeds	Rate/ha	Comments
Autumn hawkbit (Leontodon autumnalis) Creeping buttercup (Ranunculus repens) Plantains (Plantago spp.)	2.8L	Susceptible (Consistently good control, both shoots and roots)
Cat's ear (Hypochaeris radicata), Common knapweed (Centaurea nigra), Common nettle (Urtica diocia), Creeping thistle (Cirsium arvense)*, Curled dock (Rumex crispus)*, Daisy (Bellis perennis), Dandelion (Taraxacum officinale), Meadow buttercup (Ranunculus acris)*, Self-heal (Pruneila vulgaris), Spear thistle (Cirsium vulgare), Soft rush (Juncus effusus)*	2.8L	Moderately Susceptible (Aerial growth usually killed and a useful measure of long-term control obtained under suitable conditions)
Common ragwort (Senecio jacobaea) ¹ , Field Bindweed (Convolvulus arvensis) ²	3.3 L	Moderately Susceptible (Aerial growth usually killed and a useful measure of long-term control obtained under suitable conditions)

Dock spp.). Treat before flowering and cut 4 weeks after (or before) treatment to improve control. treat before flowering when the flowering shoot is developing rapidly and seedings & rosettes are grow, strongly. treatment will normally kill plants at all stages of growth up to the early bud stage. For best levels of control, tree April - June when rosettes are growing strongly but before flower buds are well formed. In order to obtain maximum effect in the year after treatment, spraying should be delayed until the shoots are developed. It reat when growing well in May or early June. Top growth is removed or considerably reduced for the set of treatment. In grassland for hay or silage, shoot killmay be obtained by using 2.0 l/ha two weeks before cu WEED SUSCEPTIBILITY TABLE AMENITY TRET Weed Rate/ha Creeping buttercup (Ranungulus repensited to the plant of plants of plant of plants of plant of plants of plant of plants of plant of p					
Ireat at early flower bud stage. Ireat at early flower bud stage. Ireat at the autumn on new leaf or in the spring. Ireat either pre-flowering in May or any time after defoliation, when growing vigorously (use 1.6 l/ha on seed Dock spp.). Ireat before flowering and cut 4 weeks after (or before) treatment to improve control. Ireat before flowering when the flowering shoot is developing rapidly and seedlines & roseltes are grow strongly. Ireat the control will normally kill plants at all stages of growth up to the early bud stage. For best levels of control, tre April - June when roseltes are growing strongly but before flower buds are well formed. In order to obtain maximum effect in the year after treatment, spraying should be delayed until the shoots are developed. Ireat when growing well in May or early June. Top growth is removed or considerably reduced for the see of treatment. In grassland for hay or silage, shoot kill may be obtained by using 2.0 l/ha two weeks before cu WEED SUSCEPTIBILITY TABLE Menning buttercup (Ranundulus repens) Mouse-ear hawkweed (Hieracium piloselid) Third (Armeria maritima). Moderately Susceptible (Consistently killed by one application) Moderately Susceptible (Sometimes killed by one	Bulbous buttercup (Ranunculus bulbosus) ^a , Common ragwort (Senecio jacobaea) ^a , Common sorrei (Rumex acetosa) [*] , Dwarf thistle (Cirsium acaule), Hard rush (Juncus inflexus), Horsetails (Equisetum spp.) ³ , Meadowsweet (Filipendula ulmaria), Perennial sow-thistle (Sonchus arvensis), Sheep's sorrei (Rumex acetosella) [*] , Wild onion (Allium vineale), Yarrow (Achillea millefolium),	2.8 L	on aerial growth; appreciable long-term		
treat before flowering when the flowering shoot is developing rapidly and seedlings & rosettes are grow strongly. treatment will normally kill plants at all stages of growth up to the early bud stage. For best levels of control, tre April - June when rosettes are growing strongly but before flower buds are well formed. In order to obtain maximum effect in the year after treatment, spraying should be delayed until the shoots are developed. treatment. In grassland for hay or early June. Top growth is removed on considerably reduced for the sec of treatment. In grassland for hay or silage, shoot kill may be obtained by using 2.0 l/ha two weeks before cu VEED SUSCEPTIBILITY TABLE IMENITY GRASSLAND & MANAGED AMENITY TURF Weed Creeping buttercup (Ranunculus repens) Mouse ear hawkweed (Hieracium piloselia) Plantains (Plantago sp.) Thrift (Armeria maritima). Moderately Susceptible (Sometimes killed by one application)	treat in spring or early summer. treat at early flower bud stage. treat in the autumn on new leaf or in the spring. treat either pre-flowering in May or any time after defoliation, when growing vigorously (use 1.6 l/ha on seedling)				
WEED SUSCEPTIBILITY TABLE MENITY GRASSLAND & MANAGED AMENITY TURF Weed Rate/ha Creeping buttercup (Ranunculus repens) Mouse-ear hawkweed (Hieracium pilosella) Plantains (Plantago sp.) Thrift (Armeria maritima). 2.8 Susceptible (Consistently killed by one application) Moderately Susceptible (Sometimes killed by one	 treat before flowering and cut 4 weeks after (or before) treatment to improve control. treat before flowering when the flowering shoot is developing rapidly and seedings & rosettes are growing strongly. treatment will normally kill plants at all stages of growth up to the early bud stage. For best levels of control, treat in April - June when rosettes are growing strongly but before flower buds are well formed. In order to obtain maximum effect in the year after treatment, spraying should be delayed until the shoots are well developed. treat when growing well in May or early June. Top growth is removed or considerably reduced for the season 				
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	Mouse-ear hawkweed (Hieracium pilosella) Plantains (Plantago sp.)				
Common ragwort (Senecio jacobaed) 3.3 L application, but may require a further application to give complete control.)	Common ragwort (Senecio jacobaed) 3.3	3L (Aoderately Susceptible (Sometimes killed by one application, but may require a further application o give complete control.)		

Bulbous buttercup (Ranunculus bulbosus) Cats-ear (Hypochaeris radicata) Common chickweed (Stellaria media) Common sorrel (Rumex acetosa) Curled dock (Rumex crispus) Daisy (Bellis perennis) Dandelion (Taraxacum officinale) Dwarf thistle (Cirsium acaule) Hawkbits (Leontodon sp.) Heath bedstraw (Galium saxatile) Marsh pennywort (Hydrocotyle vulgaris) Sea-milkwort (Glaux maritima) Sheep's sorrel (Rumex acetosella) Smooth hawk's-beard (Crepis capillaris) Stork's-bills (Erodium sp.).	2.8 L	Moderately Susceptible (Sometimes killed by one application, but may require a further application to give complete control.)	
Common mouse-ear (Cerastium holosteoides) Creeping cinquefoil (Potentilla reptans) Lesser celandine (Ranunculus ficaria) Procumbent peartwort (Sagina procumbens) Seifheal (Prunella vulgaris) Silverweed (Potentilla anserina) Yarrow (Achillea millefolium).	2.8 L	Moderately Resistant (Some effect from one application, but often requires further applications to give adequate control)	
croseltes are growing strongly but before flower buds CROP SPECIFIC INFORMATION Rate of Application Cereals		oud stage. For best evers of control, treat in April - June when	
Сгор	aximum Dose		
Winter Cereals: Wheat or Rye Barley or Oats	.5 litres per hec .0 litres per hec	tare tare	
Spring Cereals: Wheat or barley Dats 2.0 (iftres per hectare Not recommended			
Jndersown Cereals			
For cereals undersown with grass and/or clover but not lucerne. DO NOT spray with D50 before undersowing Experience has shown that when weeds and cereals form a canopy undersown crops may be safely treated using hot more than 1.0 litre per hectare at low volume. Clovers should have developed two to three true leaves before spraying. Red Clovers may be damaged.			

Grassland (non-amenity uses)

Do not treat where clovers or other legumes are an important part of the sward. Grassland may be treated with 2.8-3.3 litres per hectare of D50 according to the weeds present. Recommended rates are given in the weed susceptibility table for grassland. Clovers will receive a check. Top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward.

Amenity Grassiana and Managed Amenity Turi

Amenity grassland and managed amenity turf may be treated with 2.8-3.3 litres per hectare of D50. The expected levels of control are detailed in the weed susceptibility table for amenity uses. Clovers will receive a check. Top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward.

TIME OF APPLICATION

Spray weeds when the crop is actively growing. In general annual weeds are more susceptible at the seedling stage and perennials when the flower bud is forming.

Timing of cereal spray must be determined by the stage of the crop growth.

Winter cereals

Spray in the spring from the leaf sheaf erect stage but before the first node detectable stage.

Spring cereals

spray from the five-leaf fully expanded stage but before the first node detectable stage.

Grassland, Amenity Grassland and Managed Amenity Turf

Spray perennial weeds during their period of maximum growth, usually when the flower buds are beginning to form. The responses of perennial weeds to treatments are variable often only the aerial parts are killed but suppression may also occur. The recovery of weeds will be reduced if the crop is growing vigorously at the time of treatment. A maximum of 3 applications per year are permitted. There must be an interval of at least 28 days between separate p50 treatments.

Resistance Management

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 to be resistant to a herbicide if it survives a correatly applied freatment at the recommended dose A strategy for preventing and managing such resistance should be adopted. This should include integrating herbicides with a programme of cultural control medsures.

CONDITIONS OF SALE

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, of the weather conditions before, during and after application which may affect the performance of the goods, all conditions and warnaties, statutory or otherwise, as to the quality or titness for any purpose of our goods are excluded, and no responsibility will be accepted by us or re-sellers for any, failure in performance, damage or injury what seever orising from their storage, handling, application or use. Our staff pr agents cannot vary these conditions whether or not they supervise or assist in the use of such goods.

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