DEPITOX 500

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MAPP 17597

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 grassland







DANGER

Harmful if swallowed
Causes serious eye damage
Very toxic to aquatic life with long lasting effects

Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/eye protection/face protection
If in eyes: rinse cautiously with water for several minutes, remove contact lenses if present and easy to do so, continue rinsing
If swallowed: call a poison center or a doctor/ physician if you feel unwell
Rinse mouth
Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

CONTAINS 2,4-D. May produce an allergic reaction

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

SAFETY PRECAUTIONS

Operator Protection
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate
WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).
DO NOT EAT, DRINK OR SMOKE when using this product.
WASH CONCENTRATE from skin or eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection
Livestock must be kept out of treated areas for at least 2 weeks following treatment IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.
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)
Avoid spray drift onto adjacent plants.

Storage and Disposal
DO NOT re-use container for any purpose
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, and dispose of safely.

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

Authorisation Holder & Marketing Company
Nufarm UK Limited
Wyke Lane, Wyke, Bradford, West Yorkshire, BD12 9EJ
United Kingdom
Technical Helpline telephone number : 01274 694714
24-hour emergency telephone number : 01274 696603

PROTECT FROM FROST

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Nufarm
Grow a better tomorrow

FEEL BACK FOR DIRECTIONS FOR USE LEAFLET

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IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crop	Max Individual	Max No of treatments	Latest time of application
Winter wheat and rye	2.5 l/ha	1 per crop	Before first node detectable
Winter barley, winter oats, spring wheat and spring barley	2.0 l/ha	1 per crop	Before first node detectable
Listed cereals undersown with grass	1.0 l/ha	1 per crop	Before first node detectable
Agricultural grassland	3.3 l/ha	1 per year	-
Amenity grassland and managed amenity turf	3.3 l/ha	3 per year	-

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

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

RESTRICTIONS
DEPITOX 500 is active at low concentrations. **DO NOT** spray in windy conditions as the spray drift may cause damage to neighbouring crops. The following crops are particularly susceptible: Beet, Brassicae (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.
DEPITOX 500 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 or harrow within a few days before or after applying **DEPITOX 500**.
DO NOT apply immediately before or after sowing any crop.
DO NOT plant succeeding crops within 3 months of applying **DEPITOX 500**
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 grow unchecked on their land are liable for prosecution under the Weeds Act (1959).
Where ragwort is present users should consult the Code of Practice on How to Prevent the Spread of Ragwort. Ragwort plants sprayed with this herbicide are more palatable and contain higher levels of toxins. Animals should be excluded from treated areas until any ragwort has completely recovered or died and there is no visible sign of the dead weed. Do not include treated ragwort in hay or silage crops.

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

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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 cheiranthoides*), 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 aspen*), 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 field-speedwell (*Veronica persica*), Common fumitory (*Fumaria officinalis*), 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*), Shepherd's-needle (*Scandix pectin-veneris*), Sun spurge (*Euphorbia helioscopia*), Viper's-bugloss (*Echium vulgare*), Wall speedwell (*Veronica arvensis*)	1.4 L	MR (Cotyledon-2 ETL) or R (4 ETL-Early flower-bud)
Common Orache (*Atriplex patula*), Common Poppy (*Papaver rhoeas*), Smooth Sowthistle (*Sonchus oleraceus*)	2.0 L	S (Cotyledon-4 ETL) or MR (6 ETL-Early flower-bud)
Knotgrass (*Polygonum aviculare*), Scentless Mayweed (*Tripleurospermum maritimum*)	2.0 L	MR (Cotyledon-2 ETL) or R (4 ETL-Early flower-bud)
Creeping Thistle† (*Cirsium arvense*)	2.0-2.5 L	S (Cotyledon-Early flower-bud)

S = Susceptible
MS = Moderately Susceptible
MR = Moderately Resistant
R = Resistant
ETL = Expanded True Leaves
† = aerial growth only

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WEED SUSCEPTIBILITY TABLE AGRICULTURAL GRASSLAND

Weeds	Rate/ha	Level of control
Autumn hawkbit (*Leontodon autumnalis*), Creeping buttercup (*Ranunculus repens*)†, Plantains (*Plantago spp.*)	2.8 L	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 (*Prunella vulgaris*), Spear thistle (*Cirsium vulgare*), Soft rush (*Juncus effusus*)+	2.8 L	Moderately Susceptible (Aerial growth usually killed and a useful measure of long-term control obtained under suitable conditions)
Common ragwort (*Senecio jacobaea*)ᵎ, 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)
Broad-leaved dock (*Rumex obtusifolius*)*, Bulbous buttercup (*Ranunculus bulbosus*)ᵠ, Common ragwort (*Senecio jacobaea*)ᵠ, Common sorrel (*Rumex acetosa*)*, Dwarf thistle (*Cirsium acaule*), Hard rush (*Juncus inflexus*), Horsetails (*Equisetum spp.*)[3], Meadowsweet (*Filipendula ulmaria*), Perennial sow-thistle (*Sonchus arvensis*), Sheep's sorrel (*Rumex acetosella*)*, Wild onion (*Allium vineale*), Yarrow (*Achillea millefolium*), Yellow rattle (*Rhinanthus minor*)	2.8 L	Moderately Resistant (Variable effect on aerial growth; appreciable long-term control unlikely)

†Treat in spring or early summer
‡Treat at early flower bud stage
ᵠTreat 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 Dock spp.)
+Treat before flowering and cut 4 weeks after (or before) treatment to improve control.
ᵠTreat before flowering when the flowering shoot is developing rapidly and seedlings & rosettes are growing strongly
ᵎTreatment 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.
[2]In order to obtain maximum effect in the year after treatment, spraying should be delayed until the shoots are well developed.
[3]Treat when growing well in May or early June. Top growth is removed or considerably reduced for the season of treatment. In grassland for hay or silage, shoot kill may be obtained by using 2.0 l/ha two weeks before cutting.

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WEED SUSCEPTIBILITY TABLE
AMENITY GRASSLAND & MANAGED AMENITY TURF

Weeds	Rate/ha	Level of control
Creeping buttercup (*Ranunculus repens*), Mouse-ear hawkweed (*Hieracium pilosella*), Plantains (*Plantago sp.*), Thrift (*Armeria maritima*).	2.8 L	Susceptible (Consistently killed by one application)
Common ragwort (*Senecio jacobaea*)[1]	3.3 L	Moderately Susceptible (Sometimes killed by one application, but may require a further application to give complete control.)
Bulbous buttercup (*Ranunculus bulbosus*), Cats-ear (*Hypochaeris radicata*), Common chickweed (*Stellaria media*), Common ragwort (*Senecio jacobaea*), 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 pearlwort (*Sagina procumbens*), Selfheal (*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)

1Treatment 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.

CROP SPECIFIC INFORMATION

Rate of Application
Cereals
Apply DEPITOX 500 in 100-1000 litres of water per hectare using any standard high or low volume sprayer. Recommended rates are given in the weed susceptibility table for cereals. It is important not to exceed the maximum safe dose as follows:

Crop	Maximum Dose
Winter Cereals: Wheat or Rye Barley or Oats	 2.5 litres per hectare 2.0 litres per hectare
Spring Cereals: Wheat or barley	2.0 litres per hectare

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Undersown Cereals
For cereals undersown with grass. **DO NOT** spray with **DEPITOX 500** before undersowing. Experience has shown that when weeds and cereals form a canopy undersown crops may be safely treated using not more than 1.0 litre per hectare at low volume.

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 **DEPITOX 500** 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 Grassland and Managed Amenity Turf
Amenity grassland and managed amenity turf may be treated with 2.8-3.3 litres per hectare of **DEPITOX 500**. 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 **DEPITOX 500** 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 correctly applied treatment 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 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.

COMPATIBILITY
Depitox 500 can be tank-mixed with other products. Please consult Nufarm UK Limited or your local Nufarm distributor for the latest information on compatability of this product
Information is also available at:
https://nufarm.com/uk/products/tank-mix-2/

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COMPANY ADVISORY INFORMATION

This section is not part of the Product Label under the Plant Protection Products Regulations 2011. It provides additional advice on product use at the discretion of the applicant.

ACKNOWLEDGEMENTS

®Depitox is the registered trademark of Nufarm UK Limited

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by Nufarm UK Limited are of high grade and we believe them to be suitable for the purposes for which we expressly supply them; but as we cannot exercise any control over their mixing, use 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 form their storage, handling, re-application or use. These conditions cannot be varied by our staff, our agents or by re-sellers of the product whether or not they supervise or assist in the use of such goods.

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

CA Code (Nufarm) :	2971
Product code :	U834A
Oracle Recipe Code (Nufarm) :	600000133
Product form :	Mixture
Trade name :	Depitox 500
Type (Nufarm) :	Country Specific
Country (Nufarm) :	United Kingdom
Synonyms :	(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT 500G/L AI

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category :	Professional use
Use of the substance/mixture :	Herbicide

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
Nufarm UK Ltd
Wyke Lane
Wyke
BD12 9EJ Bradford - UK
T +44 (0)1274 691234 - F +44 (0) 1274691176
msds@uk.nufarm.com

1.4. Emergency telephone number

Emergency number :	+44(0)1274 696603 (24hr)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Serious eye damage/ eye irritation, Category1	H318
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects
Harmful if swallowed. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05



GHS07



GHS09

Signal word (CLP) :	Danger
Hazardous ingredients :	2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT
Hazard statements (CLP) :	H302 - Harmful if swallowed. H318 - Causes serious eye damage. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP) :	P270 - Do not eat, drink or smoke when using this product. P280 - Wear eye protection, face shield, protective clothing, protective gloves. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor, a POISON CENTER.
P330 - Rinse mouth.
P391 - Collect spillage.
P501 - Dispose of contents and container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

EUH-statements : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.
EUH208 - Contains 2,4-D DMA Salt. May produce an allergic reaction.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

3. Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
(2,4-DI-CHLORO-PHENOXY) ACETIC ACID, DIME-THYLAMINE SALT	(CAS-No.) 2008-39-1 (EC-No.) 217-915-8	51.63	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
EDTA substance with a Community workplace exposure limit	(CAS-No.) 60-00-4 (EC-No.) 200-449-4	0.1-0.5	Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 STOT RE 2, H373

Full text of H-statements: see section 16

4. First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

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First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).

Symptoms/effects after skin contact : Causes mild skin irritation.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : May cause irritation to the digestive tract. Ingestion may cause nausea and vomiting. Abdominal pain, nausea.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/ personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.

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Hygiene measures :	Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions :	Store in a well-ventilated place. Keep cool.
Packaging materials :	Keep only in the original container in a cool,well-ventilated place away from combustible materials.

7.3. Specific end use(s)
Herbicide.

8. Exposure controls/personal protection

8.1. Control parameters

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)		
United Kingdom	WEL TWA (mg/m³)	10 mg/m³ 8 H
United Kingdom	WEL STEL (mg/m³)	20 mg/m³ 15 min

8.2. Exposure controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protective equipment:
Gloves. Protective clothing. Safety glasses.

Hand protection:
Protective gloves

Eye protection:
Safety glasses

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls:
Avoid release to the environment.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state :	Liquid
Colour :	brown.
Odour :	Amine-like.
Odour threshold :	No data available
pH :	8.0-8.3 (100%, 20 °C ± 1 °C); 7.2-7.5 (1% w/v , 20 °C ± 1 °C)
Relative evaporation rate (butylacetate=1) :	No data available
Melting point :	Not applicable
Freezing point :	No data available
Boiling point :	> 100 °C
Flash point :	> 200 °C
Auto-ignition temperature :	> 600 °C
Decomposition temperature :	No data available
Flammability (solid, gas) :	Not applicable
Vapour pressure :	No data available
Relative vapour density at 20 °C :	No data available
Relative density :	1.166 - 1.171 (20 °C ± 1 °C)
Solubility : Water:	completely miscible
Log Pow :	-0.82 @ pH7
Viscosity, kinematic :	No data available
Viscosity, dynamic :	13.9 cP (20°C)
Explosive properties :	Product is not explosive.
Oxidising properties :	Non oxidizing material according to EC criteria.
Explosive limits :	No data available

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9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7). Heat.

10.5. Incompatible materials
Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1. Information on toxicological effects

Depitox 500	
LD50 oral rat	1297 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat (mg/l)	> 5.01 mg/l/4h

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)	
LD50 oral rat	625 mg/kg
LD50 dermal rabbit	2115 mg/kg

Acute toxicity (oral) : Oral: Harmful if swallowed.

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 8.0-8.3 (100%, 20 °C ± 1 °C); 7.2-7.5 (1% w/v , 20 °C ± 1 °C)

Serious eye damage/irritation : Causes serious eye damage.
pH: 8.0-8.3 (100%, 20 °C ± 1 °C); 7.2-7.5 (1% w/v , 20 °C ± 1 °C)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

12. Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

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Hazardous to the aquatic environment, shortterm (acute):	Very toxic to aquatic life.
Hazardous to the aquatic environment, longterm (chronic):	Harmful to aquatic life with long lasting effects.

Depitox 500	
LC50 96h fish	> 200 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	> 200 mg/l Daphnia magna
EC50 72h algae	> 100 mg/l Pseudokirchneriella subcapitata
ErC50 (other aquatic plants)	44 mg/l Lemna Minor; 7d
NOEC (chronic)	46.2 mg/l (Daphnia); 21d (flowthrough); 2,4-D acid
NOEC chronic fish	63.4 mg/l (Pimephales promelas); 32 d ELS (flowthrough); 2,4-D acid
Additional ecotoxicological information	
14 d ErC50 = 0.715 mg/L (Myriophyllum spicatum) 14 d ErC10 = 0.178 mg/L (Myriophyllum spicatum) LC50 >1000 mg/kg soil (Eisenia fetida) Oral 96 hr LD50 >100 µg prod./bee (apis mellifera) Contact 96 hr LD50 >200 µg prod.//bee (apis mellifera)	

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)
Addition al ecotoxicological information
14 d NOErC (Myriophyllum aquaticcum) 0.0305mg/L (2,4-D) 14 d ErC50 (Myriophyllumaquaticcum) 0.346mg/L (2,4-D)

12.2. Persistence and degradability

Depitox 500	
Persistence and degradability	Readily biodegradable.
Biodegradation	DT50: 2 - 58.9 d; 2,4-D

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	DT50 (soil) 2-58.9d (2,4-D)

12.3. Bioaccumulative potential

Depitox 500	
Log Pow	-0.82 @ pH7
Bioaccumulative potential	No bioaccumulation.

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)	
Log Pow	-0.82 (2,4-D; pH7)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

Depitox 500	
Mobility in soil	Mobile
Koc	KFOC = 12-382 (2,4-D)

(2,4-DICHLOROPHENOXY)ACETIC ACID, DIMETHYLAMINE SALT (2008-39-1)	
Mobility in soil	Mobile

12.5. Results of PBT and vPvB assessment

Depitox 500
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects
No additional information available

SAMPLE

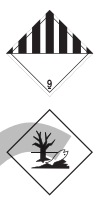
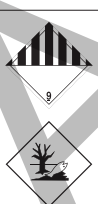
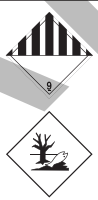
13. Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/ container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. UN proper shipping name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D)	Environmentally hazardous substance, liquid, n.o.s. (2,4-D)
Transport document description (ADR)		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2,4-D), 9, III
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		

ADR	IMDG	IATA
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user - Overland transport

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR): T4

Portable tank and bulk container special provisions (ADR): TP1, TP29

Tank code (ADR): LGBV

Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR): V12

Special provisions for carriage - Loading, unloading and handling (ADR): CV13

Hazard identification number (Kemler No.): 90



Orange plates :

Tunnel restriction code (ADR) : -

SAMPLE

EAC code :	•3Z

- Transport by sea

Special provisions (IMDG) :	274, 335, 969
Limited quantities (IMDG) :	5 L
Excepted quantities (IMDG) :	E1
Packing instructions (IMDG) :	P001, LP01
Special packing provisions (IMDG) :	PP1
IBC packing instructions (IMDG) :	IBC03
Tank instructions (IMDG) :	T4
Tank special provisions (IMDG) :	TP2, TP29
EmS-No. (Fire) :	F-A
EmS-No. (Spillage) :	S-F
Stowage category (IMDG) :	A

- Air transport

PCA Excepted quantities (IATA) :	E1
PCA Limited quantities (IATA) :	Y964
PCA limited quantity max net quantity (IATA) :	30kgG
PCA packing instructions (IATA) :	964
PCA max net quantity (IATA) :	450L
CAO packing instructions (IATA) :	964
CAO max net quantity (IATA) :	450L
Special provisions (IATA) :	A97, A158, A197
ERG code (IATA) :	9L

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

15. Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

15.1.2. National regulations
No additional information available

15.2. Chemical safety assessment
No chemical safety assessment has been carried out

16. Other information
Other information : For Transport - ADR classification is based on using own data and according to the criteria of 2.2.9.1.10.3 and 2.2.9.1.10.4 of ADR 2017.

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/ eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/ eye irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

SAMPLE

H318	Causes serious eye damage
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH208	Contains . May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

SAMPLE

DEPITOX 500

H

MAPP 17597

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 grassland







DANGER

Harmful if swallowed
Causes serious eye damage
Vey toxic to aquatic life with long lasting effects

Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/eye protection/face protection
If in eyes: rinse cautiously with water for several minutes, remove contact lenses if present and easy to do so, continue rinsing
If swallowed: call a poison center or a doctor/ physician if you feel unwell
Rinse mouth
Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

CONTAINS 2,4-D. May produce an allergic reaction

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

SAFETY PRECAUTIONS

Operator Protection
Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
WEAR SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate
WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces.
WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when applying by hand-held equipment.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).
DO NOT EAT, DRINK OR SMOKE when using this product.
WASH CONCENTRATE from skin or eyes immediately.
WASH HANDS AND EXPOSED SKIN before meals and after work.

Environmental Protection
Livestock must be kept out of treated areas for at least 2 weeks following treatment IF RAGWORT IS PRESENT, FOLLOW THE GUIDANCE IN THE 'DIRECTIONS FOR USE'.
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)
Avoid spray drift onto adjacent plants.

Storage and Disposal
DO NOT re-use container for any purpose
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, and dispose of safely.

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

Authorisation Holder & Marketing Company
Nufarm UK Limited
Wyke Lane, Wyke, Bradford, West Yorkshire,
BD12 9EJ
United Kingdom
Technical Helpline telephone number : 01274 694714
24-hour emergency telephone number : 01274 696603

PROTECT FROM FROST

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Nufarm
Grow a better tomorrow

SAMPLE



SAMPLE