

DEPITONE ULTRA®



MAPP 17615

Contains 600 g/l (55 % w/w) 2,4-D formulated as the 2 Ethylhexyl Ester – Emulsifiable Concentrate. For use as a selective herbicide for the control of weeds in winter and spring cereals, grassland (agricultural and amenity uses) and managed amenity turf.

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 when handling the concentrate.

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).

WASH CONCENTRATE from skin or eyes immediately, WHEN USING DO NOT EAT, DRINK OR SMOKE.

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'

Extreme care must be taken to avoid spray drift on to non-crop plants outside the target area.

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).

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

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

Warning

Causes skin irritation
May cause an allergic skin reaction

Very toxic to aquatic life with long lasting effects

Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Wear protective clothing, protective gloves, face shield, eye protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.
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.
To avoid risks to human health and the environment, comply with the instructions for use.

Approval 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

**IMPORTANT INFORMATION
FOR USE ONLY AS A PROFESSIONAL HERBICIDE**

Crop	Maximum Individual Dose	Maximum Total Dose	Latest time of application
Winter Wheat and Rye	1.1 l/ha	1.1 l/ha	Before first node detectable (BBCH 31)
Spring wheat, Spring Barley and Winter Barley	0.9 l/ha	0.9 l/ha	Before first node detectable (BBCH 31)
Winter Oats	0.45 l/ha	0.45 l/ha	Before first node detectable (BBCH 31)
Grassland	2.0 l/ha	2.0 l/ha	-
Amenity Grassland Managed Amenity Turf	2.0 l/ha	2.0 l/ha	-

Other specific restrictions:

Livestock must be kept out of treated areas for at least 2 weeks following treatment and until poisonous weeds such as ragwort have died and become unpalatable.

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.

RESISTANCE

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 system 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.

RESTRICTIONS

DO NOT spray in windy or very still conditions

DO NOT sow any crop into soil treated with the product for at least 3 months after application.

WARNING: Under certain circumstances vapour drift may occur after spraying. It is recommended that this product should not be used in fields adjacent to susceptible crops. These include brassica crops, peas and beans, linseed and outdoor vegetables.

CAUTIONS

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.

Cautions for use on cereals

- DO NOT roll or harrow crops within seven days before or after spraying with DEPIITONE ULTRA.
- DO NOT apply DEPIITONE ULTRA to crops suffering from herbicide damage or stress caused by pest attack, nutrition defects or weather.
- DO NOT spray in the rain or if rain is expected within six hours.
- DO NOT apply in periods of drought, frosty weather or if frosts are expected.
- DO NOT apply immediately before or after sowing the crop.

Cautions for use on grassland (Permanent & Rotational)

- DO NOT spray in the rain or if rain is expected within six hours.
 - DO NOT apply in periods of drought, frosty weather or if frosts are expected.
 - DO NOT mow two days before or one day after spraying.
 - DO NOT apply to grass suffering from drought.
 - DO NOT use the first four mowings for mulching.
 - DO NOT use on newly sown grass for six months after establishment.
- When applying to local patches of weed great care should be taken to avoid overdosing, otherwise the grass may be scorched and scorching of weeds may result in poorer control due to decreased translocation of the herbicide.
- After liming ensure lime is washed off the grass and weeds before spraying.

Cautions for use on amenity grassland and managed amenity turf

- DO NOT spray in the rain or if rain is expected within six hours.
 - DO NOT apply in periods of drought, frosty weather or if frosts are expected.
 - DO NOT mow two days before or one day after spraying.
 - DO NOT apply to grass suffering from drought.
 - DO NOT use the first four mowings for mulching.
 - DO NOT use on newly sown grass for six months after establishment.
- When applying to local patches of weed great care should be taken to avoid overdosing, otherwise the grass may be scorched and scorching of weeds may result in poorer control due to decreased translocation of the herbicide.

WEED CONTROLLED

WEED SUSCEPTIBILITY TABLE: CEREALS

Weeds	Rate (l/ha)	Level of control
Charlock (<i>Sinapis arvensis</i>) Mustard, black (<i>Brassica nigra</i>)	0.3	S (Cotyledon-Early flower-bud)
Fat-Hen (<i>Chenopodium album</i>) Pennycress, field (<i>Thlaspi arvense</i>) Mustard, treacle (<i>Erysimum cheiranthoides</i>) Mustard, white (<i>Sinapis alba</i>) Tare, hairy (<i>Vicia hirsuta</i>) [*]	0.6	S (Cotyledon-Early flower-bud)

Weeds	Rate (l/ha)	Level of control
Bugloss (<i>Lycopsis arvensis</i>) Chickweed, common (<i>Stellaria media</i>) Dove's-foot Crane's-bill (<i>Geranium molle</i>) Groundsel (<i>Senecio vulgaris</i>) Speedwell, green field (<i>Veronica agrestis</i>) Speedwell, wall (<i>Veronica arvensis</i>) Sun spurge (<i>Euphorbia helioscopia</i>) Viper's-bugloss (<i>Echium vulgare</i>)	0.6	MR (Cotyledon-2 ETL) or R (4 ETL-Early flower-bud)
Buttercup, corn (<i>Ranunculus arvensis</i>) Nettle, small (<i>Urtica urens</i>) Radish, wild (<i>Raphanus raphanistrum</i>)	0.6	S (Cotyledon-2 ETL) or MS (4 ETL-Early flower-bud)
Shepherds Purse (<i>Capsella bursa-pastoris</i>) Thistle, creeping†(<i>Cirsium arvense</i>)	0.9 -1.1	S (Cotyledon - Early flower-bud)
Orache, common (<i>Atriplex patula</i>) Poppy, common (<i>Papaver rhoeas</i>) Sowthistle, prickly (<i>Sonchus asper</i>) Sowthistle, smooth (<i>Sonchus oleraceus</i>) Turnip, wild (<i>Brassica rapa</i>)	0.9-1.1	S (Cotyledon-2 ETL) or MS (4 ETL-Early flower-bud)
Bindweed, black (<i>Polygonum convolvulus</i>) Fumitory, common (<i>Fumaria officinalis</i>) Gromwell, field (<i>Lithospermum arvense</i>) Knotgrass (<i>Polygonum aviculare</i>) Mouse-ear, common (<i>Cerastium holosteoides</i>) Nightshade, black * (<i>Solanum nigrum</i>) Pale Persicaria (<i>Polygonum lapathifolium</i>) Redshank (<i>Polygonum persicaria</i>) Scarlet Pimpernel (<i>Anagallis arvensis</i>) Shepherd's-needle* (<i>Scandix pecten-veneris</i>) Speedwell, common field* (<i>Veronica persica</i>) Speedwell, ivy-leaved* (<i>Veronica hederifolia</i>)	0.9-1.1	MS (Cotyledon-2 ETL) or MR (4 ETL-Early flower-bud)
Chamomile, corn (<i>Anthemis arvensis</i>) Deadnettle (<i>Lamium sp.</i>) Hemp-nettle, common (<i>Galeopsis tetrahit</i>) Mayweed, scentless (<i>Tripleurospermum maritimum</i>) Pansy, field (<i>Viola sp.</i>) Spurrey, corn (<i>Spergula arvensis</i>)	0.9-1.1	MR (Cotyledon-2 ETL) or R (4 ETL-Early flower-bud)

S = Susceptible

MS = Moderately Susceptible

MR = Moderately Resistant

R = Resistant

ETL = Expanded True Leaves

= Susceptible at seedling stage only

* = R at 4 ETL-Early flower-bud stage

† = Treat at maximum rate, controls aerial growth only

WEED SUSCEPTIBILITY TABLE: GRASSLAND (Agricultural Uses)

Weeds	Rate (l/ha)	Comments
Creeping buttercup (<i>Ranunculus repens</i>) [†] Hawkbit, autumn (<i>Leontodon autumnalis</i>) Plantains (<i>Plantago spp.</i>)	2.0	Susceptible (Consistently good control, both shoots and roots)
Buttercup, meadow (<i>Ranunculus acris</i>) [†] Cat's ear (<i>Hypochaeris radicata</i>) Daisy (<i>Bellis perennis</i>) Dandelion (<i>Taraxacum officinale</i>) Dock, curled (<i>Rumex crispus</i>) [*] Knapweed common (<i>Centaurea nigra</i>) Nettle, common (<i>Urtica dioica</i>) Soft rush (<i>Juncus effusus</i>) [*] Self-heal (<i>Prunella vulgaris</i>) Thistle, creeping (<i>Cirsium arvense</i>) [†] Thistle, spear (<i>Cirsium vulgare</i>)	2.0	Moderately Susceptible (Aerial growth usually killed and a useful measure of long-term control obtained under suitable conditions)
Buttercup, bulbous (<i>Ranunculus bulbosus</i>) [‡] Dock, broad-leaved (<i>Rumex obtusifolius</i>) [*] Horsetails (<i>Equisetum spp.</i>) [†] Meadowsweet (<i>Filipendula ulmaria</i>) Onion, wild (<i>Allium vineale</i>) Ragwort, common (<i>Senecio jacobaea</i>) [‡] Rush, hard (<i>Juncus inflexus</i>) Sorrel, common (<i>Rumex acetosa</i>) [*] Sorrel, Sheep's (<i>Rumex acetosella</i>) [*] Perennial sow-thistle (<i>Sonchus arvensis</i>) Dwarf thistle (<i>Cirsium acaule</i>) Yarrow (<i>Achillea millefolium</i>) Yellow rattle (<i>Rhinanthus minor</i>)	2.0	Moderately Resistant (Variable effect on aerial growth; appreciable long-term control unlikely)

[†]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

^{*}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 seedlings & rosettes are growing strongly

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 1.1 l/ha two weeks before cutting.

WEED SUSCEPTIBILITY TABLE: AMENITY GRASSLAND & MANAGED AMENITY TURF

Weed	Rate (l/ha)	Comments
Creeping buttercup (<i>Ranunculus repens</i>) Mouse-ear hawkweed (<i>Hieracium pilosella</i>) Plantains (<i>Plantago sp.</i>) Thrift (<i>Armeria maritima</i>)	2.0	Susceptible (Consistently killed by one application)
Bedstraw, heath (<i>Galium saxatile</i>) Buttercup, bulbous (<i>Ranunculus bulbosus</i>) Cats-ear (<i>Hypochaeris radicata</i>) Chickweed, common (<i>Stellaria media</i>) Daisy (<i>Bellis perennis</i>) Dandelion (<i>Taraxacum officinale</i>) Dock, curled (<i>Rumex crispus</i>) Hawk's-beard, Smooth (<i>Crepis capillaris</i>) Hawkbits (<i>Leontodon sp.</i>) Pennywort, marsh (<i>Hydrocotyle vulgaris</i>) Milkwort, sea (<i>Glaux maritima</i>) Ragwort, common (<i>Senecio jacobaea</i>) Sorrel, common (<i>Rumex acetosa</i>) Sorrel, sheep's (<i>Rumex acetosella</i>) Stork's-bills (<i>Erodium sp.</i>) Thistle, dwarf (<i>Cirsium acaule</i>)	2.0	Moderately Susceptible (Sometimes killed by one application, but may require a further application of an alternative product to give complete control.)
Celandine, lesser (<i>Ranunculus ficaria</i>) Cinquefoil, creeping (<i>Potentilla reptans</i>) Mouse-ear, common (<i>Cerastium holosteoides</i>) Pearlwort, procumbent (<i>Sagina procumbens</i>) Selfheal (<i>Prunella vulgaris</i>) Silverweed (<i>Potentilla anserina</i>) Yarrow (<i>Achillea millefolium</i>)	2.0	Moderately Resistant (Some effect from one application, but often requires further applications of alternative products to give adequate control)

CROP SPECIFIC INFORMATION
DIRECTIONS FOR USE ON CEREALS
Crops

DEPITONE ULTRA may be used on winter and spring wheat and barley, winter oats, and rye.

DO NOT use DEPITONE ULTRA on spring oats.

DEPITONE ULTRA may also be used on cereals undersown with grass only.

DO NOT use DEPITONE ULTRA on cereals undersown with any other crop, and allow at least eight weeks between spraying and undersowing with any crop other than grass.

Water volume

On cereals use a volume of 100 to 400 litres of water per hectare.

Use a minimum rate of 225 l/ha in dense stands of cereals, or if weed growth is dense.

Spray quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bars is recommended.

Rate of application and timing

DEPITONE ULTRA should be applied when the crop is actively growing and is at the correct growth stage. The best results will be obtained if spraying is done while the majority of weeds are seedlings.

Cereals:

Apply DEPITONE ULTRA to winter wheat and rye at up to 1.1 l/ha depending on the resistance of weeds present.
Apply DEPITONE ULTRA to spring wheat, spring barley and winter barley at up to 0.9 l/ha depending on the resistance of weeds present.

Apply DEPITONE ULTRA to winter oats at a rate of up to 0.45 l/ha depending on the resistance of weeds present.

Apply to winter cereals in the spring, between growth stages BBCH 30 and 31.

Apply to spring cereals between growth stages BBCH 15 and 31.

Applications to crops under stress or during very hot conditions at early crop growth stages can cause leaf and ear damage.

Undersown Cereals:

Apply DEPITONE ULTRA at the rates indicated above for the appropriate cereal crop.

DEPITONE ULTRA may be used on cereals undersown with grass only, when the cereal crop is at the growth stage indicated above, but not until the grass seedlings have begun to tiller.

Weed control in cereals

The expected levels of control are detailed in the weed susceptibility tables.

DIRECTIONS FOR USE ON GRASSLAND (PERMANENT & ROTATIONAL)

Crops

DEPITONE ULTRA may be used on agricultural grassland (permanent & rotational). Please refer to the separate directions below for use on amenity grassland and managed amenity turf.

DO NOT spray to swards containing clover or other legumes.

Water volume

On grassland use a rate of 200 to 500 litres of water per hectare.

Spray quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bars is recommended.

Rate of application and timing

DEPITONE ULTRA should be applied to agricultural grassland at a rate of 2.0 l/ha.

A top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward.

The time of application is best determined according to the growth stage of weeds present.

Only one application per year is permitted.

Weed control in grassland (permanent & rotational)

Weeds should be sprayed during their period of maximum growth, usually when the flower buds are beginning to form. The recovery of weeds will be reduced if the sward is growing vigorously at the time of treatment. The expected levels of control are detailed in the weed susceptibility tables.

DIRECTIONS FOR USE ON AMENITY GRASSLAND AND MANAGED AMENITY TURF

Crops

DEPITONE ULTRA may be used on amenity grassland and managed amenity turf. Please refer to the separate directions above for use on agricultural grassland.

Water volume

On grassland use a rate of 200 to 500 litres of water per hectare.

Spray quality

Apply as a medium quality spray (as defined by BCPC). A spray pressure of 2-3 bars is recommended.

Rate of application and timing

DEPITONE ULTRA should be applied to amenity grassland and managed amenity turf at a rate of 2.0 l/ha. A top dressing ten days before treatment is recommended to assist kill of weeds and subsequent recovery of the sward.

The time of application is best determined according to the growth stage of weeds present. Only one application per year is permitted.

Weed control in amenity grassland and managed amenity turf

Weeds should be sprayed during their period of maximum growth, usually when the flower buds are beginning to form. The recovery of weeds will be reduced if the sward is growing vigorously at the time of treatment. The expected levels of control are detailed in the weed susceptibility tables.

METHODS FOR CLEANING APPLICATION EQUIPMENT

Empty containers should be triple rinsed, before disposal.

After each days use, wash out sprayer with water and wetting agent. Wash out again with water, drain and allow to dry. Traces of herbicide left in the sprayer may damage susceptible crops if these are subsequently sprayed using the same equipment.

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.

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 from 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.

Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

CA Code (Nufarm): 1932
Product code: P433A;NLI1713
Oracle Recipe Code (Nufarm): 600000072
Item codes: 110004458
Product form: Mixture
Trade name: Depitone Ultra
Type (Nufarm): Country specific
Country (Nufarm): United Kingdom

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

Supplier

Nufarm UK Limite d.
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

2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

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

Skin corrosion/irritation
Category 2: H315
Skin sensitisation
Category 1: H317

Hazardous to the aquatic environment —

Acute Hazard, Category 1: H400

Hazardous to the aquatic environment —Chronic Hazard, Category 2: H411

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

Adverse physicochemical, human health and environmental effects.

Causes skin irritation. May cause an allergic skin reaction. 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):



GHS07



GHS09

Signal word: Warning

Hazardous ingredients:

2,4-DICHLOROPHENOXY (ACETIC ACID, 2-ETHYLHEXYL ESTER)

Hazard Statements:

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P264 - Wash hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, face protection, eye protection.

P302+P352 - IF ON SKIN: Wash with plenty of water.
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
 P391 - Collect spillage.
 P501 - Dispose of contents and container to a licensed hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements:

EUH401 - To avoid risks to human health and the environment, comply with the instructions for use.

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 Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Alkylbenzene sulfonate, Calcium salt/2-ethyl hexanol	(CAS-No.) 26264-06-2; 104-76-7 (EC-No.) 247-557-8; 203-234-3 (REACH-no) 01-2119560592-37	4.0-4.5	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER	(CAS-No.) 1928-43-4 (EC-No.) 217-673-3	81.62	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-statements: see section 16

4. FIRST AID MEASURES

4.1. Description of first aid measures

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. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact:

Rinse eyes with water as a precaution.

First-aid measures after ingestion:

Call a poison center or a doctor if you feel unwell.

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
KEROSINE - UNSPECIFIED - DISTILLATES (PETROLEUM), HYDROTREATED LIGHT	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8 (EC Index-No.) 649-422-00-2	10-15	Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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:

Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact:

May cause eye irritation.

Symptoms/effects after ingestion:

May cause irritation to the digestive tract.

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

Treat symptomatically.

5. FIRE-FIGHTING 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. Avoid breathing vapours, spray, mist.

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:

Collect spillage.

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.

Section 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. Avoid breathing vapours, spray, mist.

Hygiene measures:

Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.



Environmental exposure controls:

Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions:

Store in a well-ventilated place. Keep cool.

Information on mixed storage:

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

Special rules on packaging:

Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Herbicide.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Protective clothing. Gloves. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Appearance:	Clear.
Colour:	Yellow.
Odour:	Ester.
Odour threshold:	No data available
pH:	3.9 - 4.1 (20 °C ± 1 °C)
pH solution concentration:	1 % (aqueous)
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	Not applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	126 °C
Auto-ignition temperature:	275 °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:	1.105 - 1.1088 (20°C)
Solubility:	Water: Emulsifiable
Log Pow:	5.78 (2,4 D 2-EHE)
Viscosity, kinematic:	19.82 mm ² /s (40°C)
Viscosity, kinematic:	54.67 mm ² /s (20°C)
Viscosity, dynamic:	21.98 mPa·s (40°C)
Viscosity, dynamic:	60.62 mPa·s (20°C)
Explosive properties:	Product is not explosive.

Oxidising properties: Non oxidizing material according to EC criteria.

Explosive limits: No data available

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). High temperature.

10.5. Incompatible materials

Oxidizing agent. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates Carbon dioxide. Carbon monoxide. Hydrogen chloride. Sulphur oxides.

11. TOXICOLOGY INFORMATION

11.1. Information on toxicological effects

DEPITONE ULTRA	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 5.63 mg/l/4h

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)

LD50 oral rat	720 - 982 mg/kg
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(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)

LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	> 5.39 mg/l/4h

Acute toxicity (oral):	Not classified
Acute toxicity (dermal):	Not classified
Acute toxicity (inhalation):	Not classified
Skin corrosion/irritation:	Causes skin irritation. pH: 3.9 - 4.1 (20 °C ± 1 °C)
Serious eye damage/irritation:	Not classified (Based on available data, the classification criteria are not met) pH: 3.9 - 4.1 (20 °C ± 1 °C)
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
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)

DEPITONE ULTRA	
Viscosity, kinematic	19.82 mm ² /s (40°C)

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general:	Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment short-term (acute):	Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic):	Very toxic to aquatic life with long lasting effects.

DEPITONE ULTRA	
LC50 96h fish	> 100 mg/l Oncorhynchus mykiss (Rainbow trout)
EC50 48h crustacea	>= 100 mg/l Daphnia magna
EC50 72h algae	> 100 mg/l Selenastrum capricornutum
NOEC (chronic)	>= 55.3 mg/l Daphnia magna
NOEC chronic fish	63.4 mg/l Pimephales promelas (2,4-D; 32d ELS)
NOEC chronic algae	20.7 mg/l

Additional ecotoxicological information

EbC50 (Selenastrum capricornutum)	62.8mg/L
7 d EC50 (Lemna minor)	0.964 mg/L
14d ErC50 (Myriophyllum spicatum)	0.247 mg/L
14d ErC10 (Myriophyllum spicatum)	0.0592 mg/L
LC50 (Eisenia fetida)	>120 mg/Kg soil
96 h LD50 oral/contact (Apis mellifera)	>200 µg/bee

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)	
LC50 96h fish	> 0.24 mg/l Menidia beryllina
EC50 48h crustacea	0.25 mg/l Daphnia magna (Water flea)
EC50 other aquatic organisms 1	0.23 mg/l Skeletonema costatum; 120h
ErC50 (algae)	0.202 mg/l Myriophyllum spicatum; 14d
NOEC (chronic)	0.015 mg/l Daphnia magna (Water flea)
NOEC chronic fish	0.12 mg/l Pimephales promelas 32 d ELS (flow-through)
NOEC chronic algae	0.1875 Skeletonema costatum 120h
EC50, Lemna gibba (Duckweed)	0.5 mg/l (7 days)

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)	
LC50, Apis mellifera (bee), Acute toxicity (ordl)	100 µg/bee
LC50, Apis mellifera (bees), Acute toxicity, Contact	> 100 µg/bee

12.2. Persistence and degradability

Abiotic Degradation

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	DT50 1.1-3.2 hours (soil)

12.3. Bioaccumulative potential

Partition Coefficient

DEPITONE ULTRA	
Log Pow	5.78 (2,4 D 2-EHE)

DEPITONE ULTRA	
Bioaccumulative potential	Low bioaccumulation potential.

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)

Log Pow	5.78 (at 25 °C)
Bioaccumulative potential	Low bioaccumulation potential.

2.4. Mobility in soil

DEPITONE ULTRA	
Mobility in soil	Mobile

(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)

Mobility in soil	Very high to medium; Kfoc = 12-382 mg/L (2,4-D)
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12.5. Results of PBT and vPvB assessment

Depitone Ultra	
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	

Component	
(2,4-DICHLOROPHENOXY) ACETIC ACID, 2-ETHYLHEXYL ESTER (1928-43-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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

14. TRANSPORTATION 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 2EHE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D 2EHE)	Environmentally hazardous substance, liquid, n.o.s. (2,4-D 2EHE)
Transport document description (ADR)		
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D 2EHE), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2,4-D 2EHE), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s. (2,4-D 2EHE), 9, III
14.3. Transport hazard class(es)		
9	9	9

ADR	IMDG	IATA

14.4. Packing group

III	III	III
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14.5. Environmental hazards

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

90
3082

14.6 Special precautions for user

- Overland transport

Classification code (ADR): M6
 Special provisions (ADR): 274, 335, 375, 601
 Limited quantities (ADR): 5I
 Excepted quantities (ADR): E1
 Packing instructions (ADR): P001, IBC03, LP01, R001

Orange plates:

Tunnel restriction code (ADR): -
 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): PPI
 Mixed packing provisions (ADR): MP19
 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

Transport category (ADR): 3
 Special provisions for carriage - Packages (ADR): VI2
 Special provisions for carriage - Loading, unloading and handling (ADR): CV13
 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

Indication of changes:

Section	Changed item	Change	Comments
2.1	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Modified	
2.2	Precautionary statements (CLP)	Modified	
3	Composition/ information on ingredients	Modified	
7.2	Information on mixed storage	Added	
7.2	Special rules on packaging	Modified	
9.1	Viscosity, dynamic	Added	
9.1	Viscosity, kinematic	Added	
9.1	Viscosity, dynamic	Added	

Section	Changed item	Change	Comments
9.1	pH solution concentration	Added	
9.1	pH	Added	
9.1	Viscosity, kinematic	Modified	
9.1	Odour	Modified	
9.1	Log Pow	Modified	
9.1	Relative density	Modified	
11.1	LD50 oral rat	Modified	
12.1	NOEC chronic fish	Added	
12.1	NOEC chronic algae	Added	
12.1	NOEC (chronic)	Added	
12.1	EC50 72h algae	Modified	
12.1	EC50 48h crustacea	Modified	
12.1	LC50 96h fish	Modified	
12.3	Log Pow	Modified	

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 1	Hazardous to the aquatic environment — Chronic 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
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

DEPITONE ULTRA®



MAPP 17615

Contains 600 g/l (55 % w/w) 2,4-D formulated as the 2 Ethylhexyl Ester – Emulsifiable Concentrate. For use as a selective herbicide for the control of weeds in winter and spring cereals, grassland (agricultural and amenity uses) and managed amenity turf.

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 when handling the concentrate.

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).

WASH CONCENTRATE from skin or eyes immediately, WHEN USING DO NOT EAT, DRINK OR SMOKE.

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'

Extreme care must be taken to avoid spray drift on to non-crop plants outside the target area.

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).

Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

WASH OUT CONTAINER THOROUGHLY, empty washings into spray tank and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

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

Warning

**Causes skin irritation
May cause an allergic skin reaction**

Very toxic to aquatic life with long lasting effects

Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product.
Wear protective clothing, protective gloves, face shield, eye protection.
IF ON SKIN: Wash with plenty of soap and water.
If skin irritation or rash occurs: Get medical advice/attention.
Collect spillage.
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.
To avoid risks to human health and the environment, comply with the instructions for use.

Approval Holder & Marketing Company

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Bradford, West Yorkshire
BD12 9EJ
United Kingdom

Technical Helpline telephone number 01274 694714
24-hour emergency telephone number 01274 696603

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CLIENT	NUFARM UK
REFERENCE	DEPITONE ULTRA UK - xxxx
ORDER N°	00507125-001-000
BARCODE N°	-
CSR	Rachel Bonnefon
OPERATOR	BLA
PROOF / DATE	APPROVAL 5 - 14-APR-20

CYAN

MAJENTA

YELLOW

Black

SAMPLE

UNIT SIZE	150 x 160 / 140 x 127 mm
INK NUMBER	4
SH2	
DEVELOPMENT	
PLATE	
SCREEN RULING	-
PRINTING SENS	Normal
	
PLAN	

FOR APPROVAL Please verify this proof carefully concerning lay-out, size, texts and barcode. For the Pantone® colours please refer to the latest Pantone® colour guide. After your approval on the above we can proceed to the next stage of your project. Please valid this proof by signature and send it back to us. Thank you.

CLIENT SIGNATURE

Date: _____