Optica Trio

A soluble concentrate formulation containing 310 g/L (26.2% w/w) dichlorprop-p acid, 160 g/L (13.5% w/w) MCPA acid and 130 g/L (11.0% w/w) mecoprop-p acid formulated as the dimethylamine salt for the control of broad-leaved weeds in cereals The (COSHH) Control of Hazards Hazardous to Health Regulations may apply to the use of this product at work in the UK

SAFETY INFORMATION

DANGER

Harmful if swallowed

Causes serious eye damage May cause an allergic skin reaction

Avoid breathing mist/vapours/sprav

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. IF SWALLOWED: call a POISON CENTER or doctor/physiciar

if you feel unwell

IF ON SKIN: wash with plenty of soap and water

If skin irritation or rash occurs: get medical advice/attention. 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.

IMPORTANT INFORMATION

MAPP 16113 PCS No. 05337

FOR USE ONLY AS AN ADNICULIONAL HENDICIDE				
Crop	Maximum	Maximum Number	Latest Timing of Applications	
	individual dose	number of treatments		
Wheat, Barley, Oats, Rye, Triticale, Spelt and Durum Wheat	2.5 L product/ha	1 per crop	Before 2 nd node detectable stage	

Other Specific Restrictions

The total amount of Mecoprop-p applied to an individual crop, or in a single year in the case of a perennial crop, must not exceed the maximum total dose of Mecoprop-p approved for application to that crop by any single Mecoprop-p containing product. The earliest time of application for all crops is the 1 March in the year of harvest

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.

FOR PROFESSIONAL USE ONLY. PROTECT FROM FROST Approval holder: Nufarm UK Ltd., Wyke, Bradford, West Yorkshire BD12 9EJ

Distributed by: Headland Agrochemicals Ltd., Rectors Lane, Pentre, Flintshire, CH5 2DH, UK. Telephone: 01244 537370 Fax: 01244 532097 E-mail: enquiry@headlandgroup.com www.headland-ag.co.uk

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

Do not spray cereals that have been, or are to be, undersown with clover.

Do not roll or harrow crops within a week of spraying. **Avoid** overlapping spray swathes.

Do not apply during cold weather or drought.

Do not apply during rain or if rain is expected.

Do not spray in windy weather and avoid drift onto broadleaved plants outside the target area.

WEEDS CONTROLLED Weeds Controlled in Cereals

Suscentible at 1.5 L product/k

Susceptible at 1.5 L pro	duct/na	
Charlock	Sinapis arvensis	5cm
		across/high
Common Chickweed	Stellaria media	5cm
		across/high
Crane's-bill species	Geranium spp.	6 true
		leaves
Fat Hen	Chenopodium album	5cm
		across/high
Shepherd's Purse	Capsella bursa-pastoris	4 true
		logvog

Susceptible at 2.0 L product/ha

Common Poppy

Susceptible at 2.5 L product/ha

Buttercups	Ranunculus species	6 true leaves
Cleavers	Galium aparine	5cm
		across/high
Common Mouse Ear	Cerastium holosteoides	5cm
		across/high
Corn Spurrey	Spergula arvensis	5cm
		across/high
Hempnettles	Galeopsis spp.	4 true
Tiomphotaeo	Galeopolo opp.	
		leaves

Papaver rhoea

Moderately Susceptible at 1.5 L product/ha

White clover Trifolium repens

Moderately Susceptible at 2.0 L product/ha

Creeping Thistle #	Cirsium arvense	6 true
		leaves
Deadnettle species	Lamium spp.	Before
		flowers
		open
Fumitory	Fumaria officinalis	8 true
		leaves

Runch	Raphanus raphanistrum	Before side shoots form
Moderately Suscepti	ble at 2.5 L product/ha	
Field Pansy	Viola arvensis	4 true
		leaves
Mayweeds	Matricaria species	2 true
		leaves
Oilseed rape	Brassica napus	3 true
		leaves
Redshank	Polygonum persicaria	2 true
		leaves
Speedwells	Veronica species	6 true
		leaves

Creeping thistle will be effectively controlled, but some re-growth may occur from rhizomes.

CROP SPECIFIC INFORMATION

CEREALS

OPTICA TRIO can be used on all commercial varieties of winter and spring sown wheat, winter and spring sown barley, winter and spring sown oats, rye, triticale, spelt and durum wheat.

Rate of use

Apply OPTICA TRIO at 1.5 - 2.5 L product/ha. Use the appropriate rate as indicated in the weed control table. Water Volume

200 to 400 L water/ha. Use the higher rate in dense stands of cereals, or if weed growth is dense.

Timing

across/hig

5cm

across/high

Winter Sown Wheat, Barley, Durum Wheat, Rye, Oats, Spelt and Triticale:

Apply OPTICA TRIO in the spring from leaf sheath erect stage until before the 2nd node detectable stage (GS 32).

Spring Sown Wheat, Barley, Rye, Oats, Spelt and Triticale:

Apply OPTICA TRIO from first leaf fully expanded stage until before the 2rd node detectable stage (GS 32).

Spray weeds 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 are at the seedling stage. However, spraying at the seedling stage is not advised if temperatures are low and should be delayed until temperatures increase and growth becomes more active. Optimum control will be achieved by spraying when the temperature is above 10°C.

Application

Spray Quality

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

Mixing and Spraying

Make sure the sprayer is set to give an even application at the correct volume. Fill the spray tank with half the required volume of clean water and start agitation. Add the required amount of OPTICA TRIO and continue agitation whilst adding the rest of the water.

Agitate the mixture thoroughly before use and continue agitation during spraying.

Thoroughly wash all spray equipment immediately after use.

Drift

Do not spray in windy conditions as the spray drift may cause damage to neighbouring crops. The following crops are particularly susceptible: sugar beet, oilseed rape, peas, turnips and most market garden crops including lettuce and tomatoes under glass.

Succeeding Crops

In the event of crop failure for whatever reason following the use of OPTICA TRIO, a period of 90 days should elapse before planting a broad-leaved crop. Deep ploughing should be carried out prior to planting any succeeding crop.

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, OPA, your distributor, crop adviser or product manufacturer

MIXING:

Apply using a conventional ground vehicle mounted/drawn equipment. Ensure that all application equipment is clean. Add half the required volume of water and start agitation, add the required quantity of OPTICA TRIO. Fill the tank to the required volume of water whilst maintaining agitation. Continuous agitation must be maintained until spraying is complete.

Thoroughly wash all spray equipment immediately after use. Traces of OPTICA TRIO can cause harm to susceptible crops sprayed later.

SAFETY PRECAUTIONS

Operator Protection – UK Only

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate

WEAR SUITABLE PROTECTIVE GLOVES when handling contaminated surfaces

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

Environmental Protection

Extreme care must be taken to avoid spray drift onto noncrop 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

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 and in a safe place.

WASH OUT CONTAINER THOROUGHLY, and dispose of safely.

TERMS AND CONDITIONS OF SUPPLY, SALE OR USE

All goods supplied by us are high grade and we believe them to be suitable for the purpose 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 the re-sellers of the product whether or not they supervise or assist in the use of such goods.

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.

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name: Headland Optica Trio

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

Use: Herbicide

1.3. Details of the supplier of the safety data sheet

Headland Agrochemicals Ltd. Rectors Lane, Pentre, Flintshire CH5 2DH, UK, Tel: +44(0)1244 537370 Fax: +44(0)1244 532097 E-Mail: enquiry@headlandgroup.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

EEC/99/45 :	Xn	R22 -	Harmful if swallowed.

- Xi R41 - Risk of serious damage to eyes.
- R43 May cause sensitization by skin contact. Xi
- Ν R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- EG 1272/08 : AcuteTox.4 H302 Harmful if swallowed.

2.2. Label according Pictogram	directive 1999/45/EG	2.5. Other nazarus This nixture oortains no sub 3. COMPOSITION/INFORI Chemical nature; Aqueogi Dichlorprop-P 310gr, MCPA 3.2. Mixtures <u>Components:</u> dichlorprop-P	ATION ON INGRED solution of the dimeth	ylammonium salt
		CAS-No.: EINECS-No. / ELINCS No.: REACH No.:	-	
R22 R41 R43 R51/53 S 2	Harmful if swallowed. Risk of serious damage to elves. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep out of the reach of children.	Concentration: Classification: EG_1272/08 :	26.7 % (w/w) AcuteTox.4 SkinIrrit.2 EyeDam.1 SkinSens.1	H302 - Harmful if swallowed. H315 - Causes skin irritation. H318 - Causes serious eye damage. H317 - May cause an allergic skin reaction.
S13 S24/25 S26 S35 S46	 Keep away from food, drink and animal feedingstuffs Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of in a safe way. If swallowed, seek medical advice immediately and show this container or label. 	EEC/67/548 :	Xn Xi Xi	R22 - Harmful if swallowed. R38 - Irritating to skin. R41 - Risk of serious damage to eyes. R43 - May cause sensitization by skin contact.
S37/39 S57 Pictogram	 Wear suitable gloves and eye/face protection. Use appropriate container to avoid environmental contamination. 	MCPA CAS-No.: EINECS-No. / ELINCS No.: REACH No.: Concentration: <u>Classification:</u> EG_1272/08 :	94-74-6 202-360-6 - 13.8 % (w/w) AcuteTox.4 SkinIrrit.2	H302 - Harmful íf swallowed. H315 - Causes skin irritation.

Signal word: Danger H302 - Harmful if swallowed.

- May cause an allergic skin reaction.

P302 + - IF ON SKIN: Wash with plenty of soap and water.

disposed of as non hazardous waste.

EUH401 - To avoid risks to human health and the environment, comply with the

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel

P305 + - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Dispose of contents/ container to a licensed hazardous-waste disposal

contractor or collection site except for empty clean containers which can be

- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

lenses, if present and easy to do. Continue rinsing.

- If skin irritation accurs: Get medical advice/ attention.

- Causes serious eve damage.

instructions for use.

unwell.

H317

H318

P261

P312

P352

P351 +

P338

P313

P501

2.3 Other hazards

P332 +

Aquatic/Trend: H11- lock is plank basely effects. Fig. 127208: Plank basel H23: 4 membra immake gas. CAS-Mol: 1644-77-8 Subinit 2 Subinit 2 H33: 4 My cause respiratory initiation. DESCS-Mol : 120: 5 My INV 2453-5 Subinit 2 H33: 4 My cause respiratory initiation. DESCS-Mol : 120: 5 My INV 123: 5 My cause sinds applied for the state of the state state of the state of the state of the state state of the state o		EyeDam.1 AquaticAcute1	H318 - Causes serious eye damage. H400 - Very toxic to aquatic life.	Concentration: Classification:	10% - 15% (w/w)	
Bits Skiftmin 2 Skiftmin 2 H315 - Causes skin infration. ENCS-Mo. / EUNCS No. 24-0539-0 EveCommentation: 112 % (u/w) EveCommentation: EveCommentation: 12 % (u/w) EveCommentation: F+ R15 - Causes series eve dramage. EG. (1272)08 : ActaFlox.4 H302 - Harmful if svallowed. Xi R2 - Harmful if svallowed. Xi R2 - Harmful if svallowed. EG. (1272)08 : ActaFlox.4 H302 - Harmful if svallowed. Xi R41 - Risk of serious damage to eyes. ECO67/548 : Nn R2 - Harmful if svallowed. Xi R41 - Risk of serious damage to eyes. ECO67/548 : Nn R2 - Harmful if svallowed. Xi R41 - Risk of serious damage to eyes. EVECS-Mo. / EUNCS No. 20-428 - EVECS-Mo. (EUNCS No. 20-428 - EVECS-Mo. (EUNCS No. 20-428 - ENCCS-Mo. / EUNCS No. 20-428 - H311 - Toxic in contaat/min if son. No. R45 - No. R45 - Casteriour 0.1 % (w/w) 20-428 - No. No. No. No. Casteriour 0.1 % (w/w) 20-428 - <td< td=""><td></td><td></td><td>H410 - Very toxic to aquatic life with long</td><td></td><td>AcuteTox.4</td><td>H332 - Harmful if inhaled.</td></td<>			H410 - Very toxic to aquatic life with long		AcuteTox.4	H332 - Harmful if inhaled.
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EG_1272/08: AcuteTox.3 AcuteTox.4 AcuteTox.4 AcuteTox.4 H302 - Harmful if swalowed. SkinCorr.18 AcuteTox.18 AcuteTox.10 AcuteTox		0 /0 (11/11)				
AcuteTox.4 H302 - Harmful if swaleved. symptoms persist call aphysician. SkinCorr.1B H314 - Causes selvere Skin burns and effects. symptoms persist call aphysician. AquaticChronic2 H411 - Toxic to aquatic life/with long lasting effects. 4.2 Most important symptoms and effects, both acute and delayed symptoms. No life/mation available. EEC/67/548 : T P34 - Cause in contact with skin. 3.3 Indication of any immediate medical attention and special treatment needed C P34 - Cause in contact with skin. SintB3 - Toxic to aquatic organisms. SintB4 - Toxic to nontact with skin. AcuteTox.4 P30 - Calses burns. SintB4 - Toxic to aquatic organisms. SintB4 - Cause in contact with skin. AcuteTox.4 P30 - Calses burns. P31/85 - Toxic to aquatic organisms. SintB4 - Cause in contact with skin. AcuteTox.4 P30 - Calses burns. P31/85 - Toxic to aquatic organisms. SintB4 - Causes severe sfictStin. CAS-No.: 1570-64-5 SintCorr.1A H31 - Toxic if inhaled. Suitable extinguishing media SkinCorr.1A H31 - Coxic if anhaled. SkinCorr.1A H31 - Coxic if anhaled. S.3. Advice for freighters: Sign of the equipment for for e-fighters: Special protective equipment for for e-fighters: Special protective equipment for freighters: <td>EG_1272/08:</td> <td>AcuteTox.3</td> <td>H311 - Toxic in contact with skin.</td> <td></td> <td>conscious. Rinse mo</td> <td>uth. If conscious, drink plenty of water, If</td>	EG_1272/08:	AcuteTox.3	H311 - Toxic in contact with skin.		conscious. Rinse mo	uth. If conscious, drink plenty of water, If
eye damage 4.2. Most morrant symptoms and effects, both acute and delayed Aquatic/Cronic2 H411_Toxic to aquatic Life with long lasting effects. EEC/67/548 : T R84_Toxic to aquatic Life with long lasting effects. N R51/68 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic any robinent. 4.3. Indication of any immediate medical attention and special treatment needed 4-chloro-o-cresol N R51/68 - Toxic it o aquatic organisms, may cause long-term adverse effects in the aquatic any robinent. 5. FIRE-FIGHTING MEASURES 6.1 Extinguishing media Suitable extinguishing media Suitable extinguishing media Suitable extinguishing media Suitable extinguishing media Suitable extinguishing media Concentration: 01.9% (w/w) 2.5 Special hazards arising from the substance or mixture Special protective equipment for fre-fighters: Use personal protective equipment. Wear self contained breathing apparatus for fire fighting: In the event of fire (HCI,Cl2,NOx,CO) may be formed. 6.1 21272/08 : AquaticAcute1 H301 - Toxic if inhaled. KinCort.1A H31 + Causes severe skin burns and eye damage. 6. ACCIDENTAL RELEASE MEASURES EEC/67/548 : T R23 - Toxic to aquatic life. C C R35 - Causes severe burnt. R50 - Very toxic to aquatic organisms.						
AquaticChronic2 H411 Toxic to aquatic life/with long lasting effects. Symthoms: No information available. EEC/67/548 : T R82 - Toxic for aquatic life/with long lasting effects. As Indication of any immediate medical attention and special treatment needed Treatment: Treat ymptomatically. EEC/67/548 : T R82 - Toxic for aquatic offects. 5. FRE-FIGHTING MEASURES Achtoro-c-cresol R51/85 - Toxic for aquatic offects. 5. FRE-FIGHTING media Water spray, Carbon dioxide (CO2), Dry powder, Alcohol-resistant foam Achtoro-c-cresol CAS-No.: 1570-64-5 5. Statiguishing media CAS-No.: 1570-64-5 EINECS-No. / ELINCS No.: 1570-64-5 EINCS-No.: 01-211945864-26 Schoorentration: 0.1 % (wiv) Gassflication: Gassflication: Special protective equipment. Secrets with provide equipment. Wear self contained breating apparatus for fire fighting: In the event of fire (HCI,CI2,NOx,CO) may be formed. ScincertA AquaticAcute1 H400 - Very toxic to aquatic life. 6. ACCIDENTAL RELEASE MEASURES EEC/67/548 : T R23 - Toxic to inhalation. 6. ACCIDENTAL RELEASE MEASURES CAS-No.: 12-440-3 Scinc to aquatic life. 6. ACCIDENTAL RELEASE MEASURES EEC/67/548 : T R24-0-3 Scinc to a		SkinCorr.1B		42 Most important symp	toms and effects ho	th acute and delayed
Aduatic/Unitize F41112 for the depart of with forg starts gramp effacts. EEC/67/548 : T F41122 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F422 for the nontact with skin. F4112 for the nontact with skin. Xn F4112 for the nontact with skin. F4112 for the nontact with skin. Xn F4112 for the nontact with skin. F4112 for the nontact with skin. Advalue for the nontact with skin. F4112 for the nontact with skin. F4112 for the nontact with skin. Advalue for the nontact with skin. F4112 for the nontact with skin. F4112 for the not notact with skin.						
EEC/67/548 : T R24 - Torle in contact with skin. Treatment: Treat symptomatically. Archioro-c-cresol C R34 - Causes burns. 5. FIRE-FIGHTING MEASURES A-chioro-c-cresol R51/80 - Toxic to aquatic organisms may cause long-term abreese effects in the aquatic environment. 5. FIRE-FIGHTING MEASURES 4-chioro-c-cresol Suitable extinguishing media Suitable extinguishing media CAS-No.: 1570-64-5 Suitable extinguishing media EINECS-No. / ELINCS No.: 216-381-3 Formation in the available extinguishing media Concentration: 0.1 % (twiw) Secter Toxic if inhaled. SkinCorr.1 A Classfication: C R33 - Toxic if inhaled. SkinCorr.1 A EG_1272/08 : AcueTox.3 H331 - Toxic if inhaled. SkinCorr.1 A Kinde Very toxic to aquatic life. FCC/G67/548 : T R23 - Toxic by inhalation. C R33 - Causes severe burns. N R35 - Causes severe burns. School by inhalation. C R33 - Causes severe burns. N R50 - Very toxic to aquatic organisms. School by inhalation. C R35 - Causes severe burns. N R50 - Very toxic to aquatic organisms. School by inhalation.		AquaticChronic2				tion and special treatment needed
Xn P22 - Harmful if swallowed. C 5. FIRE-FIGHTING MEASURES Achiero-o-cresol R51/83 - Toxic to aquatic organisms. margic cause long-term abreage effects in the aquatic environment. 5. FIRE-FIGHTING MEASURES 4-chiero-o-cresol Stable extinguishing media CAS-No.: 1570-64-5 EINECS-No. / ELINCS No.: 216-381-3 REACH No.: 01-2119455846-26 Concentration: 0.1 % (w/w) Classification: C EG_1272/08 : AcuteTox.3 AquaticAcute1 H31 - Toxic if inhaled. SkinCorr.1A Mati - Causes severe skin burns and eye damage. Scincer eburns: C R33 - Toxic to aquatic life. EEC/67/548 : T Ractive to the regulation: C N R50 - Very toxic to aquatic organisms. dimethyamine CAS-No.: 124-40-3 EINECS-No. / ELINCS No: 24-40-3 EINECS-No. / ELINCS No: 24-40-3	EEC/67/5/8 ·	т				uon and special treatment needed
C Ast Causes burns. 5. THE-THENTING MEXSURES N R51/8 - Toxic to aquatic organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, may cause long-term advase effects/in the aquatic any organism, the aquatic and may cause server skin burns and eye damage. 5.2 Special hazards during fire fighting: In the event of fire (HCI,CI2,NDX,CO) may be formed. EG_1272/08 : AcuteTox.1 H314 - Causes server skin burns and eye damage. 5.3 Advice for fire fighting in necessary. EEC/67/548 : T R23 - Toxic by inhalation. 6. ACCIDENTAL RELEASE MEASURES CAS-No.: 124-40-3 6.1 Personal	LL0/07/340.					
4-chioro-o-cresol Suitable extinguishing media: Water spray, Carbon dioxide (CO2), Dry powder, Alcohol-resistant foam 4-chioro-o-cresol Extinguishing media: Water spray, Carbon dioxide (CO2), Dry powder, Alcohol-resistant foam CAS-No.: 1570-64-5 EINECS-No. / ELINCS No:: 216-381-3 REACH No:: 01-2119455846-26 Concentration: 0.1 % (w/w) Classification: 0.1 % (w/w) Cassification: EG_1272/08 : SkinCorr.1A H314 - Causes severe skin burns and eye damage. AquaticAcute1 H400 - Very toxic to aquatic life. EEC/67/548 : T REACH No:: C C AS-No:: 124-40-3 EINECS-No. / ELINCS No: 204-697-4				5. FIRE-FIGHTING MEASU	JRES	
4-chloro-o-cresol 1570-64-5 CAS-No.: 1570-64-5 EINECS-No. / ELINCS No. 216-381-3 1570-64-5 REACH No.: 01-2119455846-26 Concentration: 0.1 % (w/w) Classification: 0.1 % (w/w) Classification: AcuteTox.3 EG_1272/08 : AcuteTox.3 H31 - Toxic if inhaled. H31 - Toxic if inhaled. H314 - Causes severe skin burns and eye damage. AquaticAcute1 AquaticAcute1 H400 - Very toxic to aquatic life. CC67/548 : T R 23 - Toxic by inhalation. C R 35 - Causes severe burns. N N R50 - Very toxic to aquatic organisms. 6. ACCIDENTAL RELEASE MEASURES CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4 EINECS-No. / ELINCS No.: 124-40-3 6.3. Methods and materials for containment and cleaning up		N	R51/53 - Toxic to aquatic organisms,			
4-choro-o-cresol Extinguishing media which shall not be used for safety reasons: High volume water jet CAS-No.: 1570-64-5 EINECS-No.: 216-381-3 PEACH No.: 01-211945584-26 Concentration: 0.1 % (w/w) Classfication: 01-3 % (w/w) Classfication: 01-3 % (w/w) Classfication: Causes severe skin burns and eye damage. AquaticAcute1 H31 - Toxic if inhaled. H31 - Causes severe skin burns and eye damage. AquaticAcute1 AquaticAcute1 H400 - Very toxic to aquatic life. EEC/67/548 : T C R35 - Causes severe burns. N R50 - Very toxic to aquatic organisms. dimethylamine CAS-No.: CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4					ia: Water spray, Carbo	n dioxide (CO2), Dry powder, Alcohol-
Construction 1570-64-5 EINECS-No. / ELINCS No.: 216-381-3 REACH No.: 01-2119455846-26 Concentration: 0.1 % (w/w) Classification: EG_1272/08 : EG_1272/08 : AcuteTox.3 H31 - Toxic if inhaled. H331 - Toxic if inhaled. SkinCorr.1A H31 - Causes severe skin burns and eye damage. AquaticAcute1 H400 - Very toxic to aquatic life. EC/67/548 : T C R53 - Causes severe burns. N R50 - Very toxic to aquatic organisms. dimethylamine CAS-No.: CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4			the aquatic environment.		chall not be used for a	safatu roasons: High volumo watar iot
EINECS-No. / ELINCS No.: 216-381-3 REACH No.: 01-2119458546-26 Concentration: 0.1 % (w/w) EG_1272/08 : AcuteTox.3 H331 - Toxic if inhaled. SkinCorr.1A H314 - Causes severe skin burns and eye damage. AqueticAcute1 H400 - Very toxic to aquatic life. ECC/67/548 : T R23 - Toxic by inhalation. C R35 - Causes severe burns. N R50 - Very toxic to aquatic organisms. dimethylamine CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4		1670 64 6	\sim	0 0		, , ,
REACH No.: 01-211945586-26 Concentration: 0.1 % (w/w) Classification: EG_1272/08 : SkinCorr.1A H31 - Toxic if inhaled. SkinCorr.1A H314 - Causes severe skin burns and eye damage. AquaticAcute1 H400 - Very toxic to aquatic life. EEC/67/548 : T Ref.Very toxic to aquatic organisms. R50 - Very toxic to aquatic organisms. dimethylamine CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4						
Concentration: 0.1 % (w/w) Special protective equipment for fire-fighters: Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary. EG_1272/08 : AcuteTox.3 H331 - Toxic if inhaled. Further Information: Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. EEC/67/548 : T R23 - Toxic by inhalation. 6. ACCIDENTAL RELEASE MEASURES EEC/67/548 : T R23 - Toxic by inhalation. 6. ACCIDENTAL RELEASE MEASURES Mimethylamine C R35 - Causes severe burns. 6. 1. Personal protective equipment. (see Chapter 8) Mimethylamine C R35 - Causes for year or sanitary sewer system. 6.3. Methods and materials for containment and cleaning up			· · · · · · · · · · · · · · · · · · ·			or file (Hor,Giz,NOX,GO) filay be formed.
Catassinication: Catality of the second protective equipment and emergency procedures use protective equipment (see Chapter 8) CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4	Concentration:	0.1 % (w/w)				
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Skink-Off. IA H314 - Causes server skin burns and eye damage. extinguishing water separately. This must not be discharged into drains. AquaticAcute1 H400 - Very toxic to aquatic life. 6. ACCIDENTAL RELEASE MEASURES EEC/67/548 : T R23 - Toxic by inhalation. 6. ACCIDENTAL RELEASE MEASURES C R35 - Causes severe burns. Use personal protective equipment and emergency procedures dimethylamine 6.2. Environmental precautions CAS-No.: 124-40-3 Do not flush into surface water or sanitary sewer system. EINECS-No. / ELINCS No.: 204-697-4 6.3. Methods and materials for containment and cleaning up	EG_1272/08:		H331 - Toxic if inhaled.			
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C R35 - Causes severe burns. Use personal protective equipment and emergency procedures dimethylamine CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4 6.3. Methods and materials for containment and cleaning up	FEC/67/548 ·					
N R50 - Very toxic to aquatic organisms. dimethylamine CAS-No.: 124-40-3 EINECS-No. / ELINCS No.: 204-697-4 6.3. Methods and materials for containment and cleaning up	LLO/01/040.					
CAS-No.: 124-40-3 Do not flush into surface water or sanitary sewer system. EINECS-No. / ELINCS No.: 204-697-4 6.3. Methods and materials for containment and cleaning up						0)
EINECS-No. / ELINCS No.: 204-697-4 6.3. Methods and materials for containment and cleaning up			· · •			
olor methodo dria materialo for containinent and ordining up					,	,
HEAUH NO.: U1-21194/5495-2/ Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid						
	REAGH NO.:	01-21194/5495-2/		Methods for cleaning up: S	oak up with inert abso	orbent material (e.g. sand, silica gel, acid

binder, universal binder). Sweep up and shovel into suitable containers for disposal.

Additional advice: Never return spills in original containers for re-use.

6.4. Reference to other sections see Chapter 13

7. HANDLING AND STORAGE

7.1. Precautions for safe handling Safe handling advice: Wear personal protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Advice on common storage: Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

none

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters (EH40/2005 Workplace exposure limits)

Components: dichlorprop-P CAS-No.: 15165-67-0 National occupational exposure limits: -Note: no classification available, not listed in EH40/2005 Components: MCPA CAS-No.: 94-74-6 National occupational exposure limits: -Note: no classification available, not listed in EH40/2005 Components: mecoprop-P CAS-No.: 16484-77-8 National occupational exposure limits: -Note: no classification available, not listed in EH40/2 Components: 2,4-Dichlorophenol CAS-No.: 120-83-2 National occupational exposure limits: -Note: no classification available, not listed in EH40/2005 Components: 4-chloro-o-cresol CAS-No.: 1570-64-5 National occupational exposure limits: -Note: no classification available, not listed in EH40/2005 Components: dimethylamine CAS-No : 124-40-3 National occupational exposure limits: 3.8 mg/m3 Note: (EH40/2005 Workplace exposure limits)

8.2. Exposure controls

Personal protective equipment

Respiratory protection: No special protective equipment required. Hand protection: PVC or nitrile-rubber gloves Eye protection: Safety glasses, , or:, Goggles Skin and body protection: lightweight protective clothing Hygiene measures: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the

product. When using, do not eat, drink or smoke, Protective measures: Avoid contact with skin, eyes and clothing. Keep working clothes separately.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid Form: Soluble concentrate Colour: dark vellow Odour amine-like Flash point: >100 °C Ignition temperature: 405 °C Density: 1.163 g/cm3 at 20 °C Water solubility: completely soluble pH: 6.8 at 10 g/l (20 °C) Partition coefficient: n-octanol/water: log POW = -0.25 at 25 °C (pH 7), (dichlorproplog POW = -0.71 at 25 (MCPA a POW = 0.02 at 20 °C

(MCPP-P) namic: 30.7 mPa.

Other information ione 10. STABILITY AND REACTIVITY

10.1. Reactivity no data available

02

0.2. Chemical stability decomposition if stored and applied as directed.

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

10.4. Conditions to avoid No dangerous reaction known under conditions of normal use.

10.5. Incompatible materials to avoid Strong acids and strong bases

10.6. Hazardous decomposition products No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects Acute oral toxicity: LD50 rat Dose: 300 - 500 mg/kg Acute dermal toxicity: LD50 rat Dose: > 2,000 mg/kg Acute inhalation toxicity: LC50 rat Exposure time: 4 h Dose: > 5.2 mg/l Skin irritation: rabbit Result: No skin irritation Eve irritation: rabbit

	Result: Severe eye irritation	14. TRANSPORT INFORMATION	
Sensitisation:	mouse	14. UN number	
12. ECOLOGICAL INFORMATION	Result: Causes sensitization.	14.2. Proper shipping name not applicable	
12.1. Toxicity Toxicity to bees:	LD50 (oral) Apis mellifera (Honey bee) Testing period: 48 h Dose (µg/Species): > 100	14.3. Transport hazard class(es) ADR/RID: Not a dangerous substance as defined in the above regulations.	
	LD50 (contact) Apis mellifera (Honey bee) Testing period: 48 h Dose (μg/Species): > 107.6	IMDG: Not a dangerous substance as defined in the above regulations. IATA-DGR:	
Toxicity to fish:	LC50 Oncorhynchus mykiss (Rainbow trout) Dose: > 1,000 mg/l Testing period: 96 h	Not a dangerous substance as defined in the above regulations. 14.4. Packaging group not applicable	
Toxicity to daphnia:	EC50 Daphnia magna (Water flea) Dose: > 825 mg/l Testing period: 48 h	14.5. Environmental hazards not applicable 14.6. Special precautions for user	
Toxicity to algae:	EC50 Chlorella fusca Dose: 1,170 mg/l Exposure time: 96 h	none 15. REGULATORY INFORMATION	
	EC50 Lemna gibba (Duckweed) Dose: 7.5 mg/l Exposure time: 7 d	15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Other regulations: The product is classified and labelled in accordance with EC directives or	
12.2. Persistence and degradability Biodegradability: Readily biodegra Stability in soil: DT50: 26.1 d (di DT50: 24 d (MC DT50: 8.2 d (me	adable. chlorprop-P) PA)	respective national laws 15.2. Chemical Safety Assessment none 16. OTHER INFORMATION	
12.3. Potential bioaccumulation Bioaccumulation: Does not bioaccum		Print Date: 2014/03/18 The date format YYYY/MM/DD is used according to ISO 8601. (Alterations are indicated in the left hand margin by:)	
12.4. Mobility in soil Koc = 12.9 - 83.7L/kg; 1/n= 0.589 - 1 Koc = 10 - 157 (MCPA) Koc = 20 - 43 (pH 5.6 - 7.6), 135 - 14		The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and	
12.5. Results of PBT and vPvB assessment This mixture contains no substance considered to be persistent, bloaccumulating nor toxic (PBT).		release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.	
12.6. Other adverse effects none		The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.	
13. DISPOSAL CONSIDERATIONS According to European Directive 2000/532/EC as amended :		Optica Trio is approved by the Chemicals Regulation Directorate for use as a herbicide.	
	waste containing dangerous substances)	Registration No. MAPP 16113	
13.1. Waste treatment methods	de sins in secondare su últ. The Onese Order (The Order	Headland is a registered trade mark of Headland Agrochemicals Ltd.	
of Practice for the safe use of Pestic	kaging in accordance with The Green Code. (The Code ides on Farms and Holdings.) A MAFF Publication. use empty containers. Dispose of as unused product.	Optica Trio is a registered trade mark and product of Nufarm Ltd.	

