

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: OPTICA TRIO

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

Use of substance / mixture: herbicide

1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre

Deeside

Flintshire

CH5 2DH

United Kingdom

Tel: +44(0)1244 537370

Fax: +44(0)1244 532097

Email: enquiry@headlandgroup.com

1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xn: R22; Xi: R41; Sens.: R43; N: R51/53

Most important adverse effects: Harmful if swallowed. Risk of serious damage to eyes. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements under CHIP:

Hazard symbols: Harmful.

Dangerous for the environment.



Risk phrases: R22: Harmful if swallowed.

R41: Risk of serious damage to eyes.

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R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feeding stuffs.

S24/25: Avoid contact with skin and eyes.

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S35: This material and its container must be disposed of in a safe way.

S37/39: Wear suitable gloves and eye / face protection.

S46: If swallowed, seek medical advice immediately and show this container or label.

S57: Use appropriate container to avoid environmental contamination.

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

(+)-R-2-(2,4-DICHLOROPHENOXY)PROPIONIC ACID

| EINECS | CAS | CHIP Classification | CLP Classification | Percent |
|-----------|------------|---------------------------------------|---|---------|
| 403-980-1 | 15165-67-0 | Xn: R22; Xi: R38; Xi: R41; Sens.: R43 | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317 | 20-30% |

MCPA (ISO)

| | | | | |
|-----------|---------|--------------------------------------|---|--------|
| 202-360-6 | 94-74-6 | Xn: R22; Xi: R38; Xi: R41; N: R50/53 | Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Aquatic Chronic 1: H410; Aquatic Acute 1: H400 | 10-20% |
|-----------|---------|--------------------------------------|---|--------|

METHYLAMINE (DI-)

| | | | | |
|-----------|----------|---------------------------------------|---|--------|
| 204-697-4 | 124-40-3 | F+: R12; Xn: R20; Xi: R37/38; Xi: R41 | Flam. Gas 1: H220; Acute Tox. 4: H332; STOT SE 3: H335; Skin Irrit. 2: H315; Eye Dam. 1: H318; Press. Gas: H280 | 10-20% |
|-----------|----------|---------------------------------------|---|--------|

MECOPROP-P [1] AND ITS SALTS

| | | | | |
|-----------|------------|-----------------------------|---|--------|
| 240-539-0 | 16484-77-8 | Xn: R22; Xi: R41; N: R51/53 | Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 2: H411 | 10-20% |
|-----------|------------|-----------------------------|---|--------|

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2,4-DICHLOROPHENOL

| | | | | |
|-----------|----------|------------------------------------|--|-----|
| 204-429-6 | 120-83-2 | Xn: R22; T: R24; C: R34; N: R51/53 | Acute Tox. 3: H311; Acute Tox. 4: H302; Skin Corr. 1B: H314; Aquatic Chronic 2: H411 | <1% |
|-----------|----------|------------------------------------|--|-----|

4-CHLORO-2-METHYLPHENOL

| | | | | |
|-----------|-----------|------------------------|--|-----|
| 216-381-3 | 1570-64-5 | T: R23; C: R35; N: R50 | Acute Tox. 3: H331; Skin Corr. 1A: H314; Aquatic Acute 1: H400 | <1% |
|-----------|-----------|------------------------|--|-----|

Section 4: First aid measures

4.1. Description of first aid measures

- Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
- Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.
- Ingestion:** Induce vomiting if person is conscious. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.
- Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

- Skin contact:** There may be irritation and redness at the site of contact.
- Eye contact:** There may be irritation and redness. The eyes may water profusely.
- Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
- Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Dry chemical powder. Alcohol resistant foam. Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In the event of fire (HCL, CL2, NOx, CO) may be formed.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area. The floor of the storage room must be impermeable to prevent the escape of liquids.

Respiratory protection: Respiratory protection not required.

Hand protection: PVC gloves. Nitrile gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Dark yellow

Odour: amine like.

Solubility in water: Soluble

Viscosity: 35.8 mPas

Flammability limits %: lower: Not Explosive

Flash point°C: >100

Autoflammability°C: 405

Relative density: 1.163

pH: 6.8 at 10g/l

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

| Route | Species | Test | Value | Units |
|---------|---------|---------|-------|-------|
| VAPOURS | - | 4H LC50 | >5.2 | mg/l |

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| | | | | |
|--------|---|------|---------|-------|
| ORAL | - | LD50 | 300-500 | mg/kg |
| DERMAL | - | LD50 | >2000 | mg/kg |

Relevant effects for mixture:

| Effect | Route | Basis |
|--------------------------|-------|-----------------------|
| Acute toxicity (harmful) | ING | Hazardous: calculated |
| Irritation | OPT | Hazardous: calculated |
| Sensitisation | DRM | Hazardous: calculated |

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

| Species | Test | Value | Units |
|--|----------|-------|-------|
| RAINBOW TROUT (<i>Oncorhynchus mykiss</i>) | 96H LC50 | >1000 | mg/l |
| DAPHNIA | 48H EC50 | 825 | mg/l |
| ALGAE | 72H EC50 | 1170 | ml/l |

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Acute Lemna 7 day EC50 7.5mg/l

Section 13: Disposal considerations

[cont...]

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13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

Transport class: This product does not require a classification for transport.

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3: H220: Extremely flammable gas.
H302: Harmful if swallowed.
H311: Toxic in contact with skin.
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H318: Causes serious eye damage.
H331: Toxic if inhaled.
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.
R12: Extremely flammable.
R20: Harmful by inhalation.
R22: Harmful if swallowed.
R23: Toxic by inhalation.
R24: Toxic in contact with skin.

[cont...]

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R34: Causes burns.

R35: Causes severe burns.

R37/38: Irritating to respiratory system and skin.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50: Very toxic to aquatic organisms.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.