

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

### 1.1. Product identifier

**Product name:** OPTICA

**Product code:** 10231

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

**Use of substance / mixture:** Can be used as herbicide only.

### 1.3. Details of the supplier of the safety data sheet

**Company name:** Headland Agrochemicals

Rectors Lane

Pentre

Flintshire

CH5 2DH

United Kingdom

**Tel:** +44(0)1244 537370

**Fax:** +44(0)1244 532097

**Email:** [flintshire.enquiry@fmc.com](mailto:flintshire.enquiry@fmc.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: R38; Xi: R41; N: R51/53

**Classification under CLP:** \* Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; -: EUH401

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

### 2.2. Label elements

**Label elements:**

**Hazard statements:** \* H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

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

**Signal words:** \* Danger

# SAFETY DATA SHEET

OPTICA

Page: 2

**Hazard pictograms:** \* GHS05: Corrosion  
GHS07: Exclamation mark



**Precautionary statements:** \* P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.  
P330: Rinse mouth.  
P302+352: IF ON SKIN: Wash with plenty of water/.  
P332+313: If skin irritation occurs: Get medical advice/attention.  
P273: Avoid release to the environment.  
P501: Dispose of contents/container to hazardous or special waste collection point.

## Label elements under CHIP:

**Hazard symbols:** Harmful.  
Dangerous for the environment.



**Risk phrases:** R22: Harmful if swallowed.  
R38: Irritating to skin.  
R41: Risk of serious damage to eyes.  
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety phrases:** S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S39: Wear eye / face protection.  
S35: This material and its container must be disposed of in a safe way.  
S57: Use appropriate container to avoid environmental contamination.  
S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

**Precautionary phrases:** To avoid risks to man and the environment, comply with the instructions for use.

## 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 3

## Hazardous ingredients:

MECOPROP-P - REACH registered number(s): 01-2119447100-56-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
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	30-50%

POTASSIUM HYDROXIDE - REACH registered number(s): 01-2119487136-33-XXXX

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-181-3	1310-58-3	Xn: R22; C: R35	Acute Tox. 4: H302; Skin Corr. 1A: H314	10-30%

## 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. Wash immediately with plenty of soap and water. Consult a doctor if irritation develops.

**Eye contact:** Bathe the eye with running water for 15 minutes. Remove contact lenses, if present, after the first few minutes, then continue rinsing. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Get medical attention if any discomfort continues.

### 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 pain and redness. The eyes may water profusely. The vision may become blurred. May cause permanent damage.

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

**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:** \* Eye bathing equipment should be available on the premises. Immediate medical attention is required in case of ingestion or eye contact. Show this safety data sheet to the doctor in attendance.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** \* Water spray. Carbon dioxide. Dry chemical powder. Alcohol resistant foam. Do not use high volume water jet. Use water spray to cool containers.

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 4

## 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** \* In the event of fire (HCL, CL2, 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. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

## 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. 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. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. In the case of large spills (1 ton or more), alert the appropriate authorities.

### 6.2. Environmental precautions

**Environmental precautions:** \* Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

### 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. Refer to section 13 of SDS for suitable method of disposal.

### 6.4. Reference to other sections

**Reference to other sections:** Refer to section 8 of SDS. Refer to section 13 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. For its use as a pesticide, look for precautions and personal protective measures on the officially approved label or other official guidance or policy in force. If these are lacking, see section 8 of this SDS.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Protect from frost. Store in a cool, well ventilated area. Keep container tightly closed. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs.

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 5

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

**POTASSIUM HYDROXIDE**

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m <sup>3</sup>	-	-

### DNEL/PNEC Values

**DNEL / PNEC** No data available.

### 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** \* In the event of a discharge of the material which produces a heavy vapour or mist, workers must put on officially approved respiratory protection equipment with a universal filter type including particle filter.

**Hand protection:** PVC gloves. Nitrile gloves.

**Eye protection:** \* Face-shield. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Liquid

**Colour:** Brown

**Odour:** Amine-like.

**Solubility in water:** Soluble

**Viscosity:** ca. 33 mPa.s at 20°C

**Melting point/range°C:** -20

**Flash point°C:** >100

**Part.coeff. n-octanol/water:** See section 12.3

**Autoflammability°C:** >400

**Vapour pressure:** 2.3 Pa (mecoprop-P)

**Relative density:** 1.24 g/cm<sup>3</sup> at 20°C

**pH:** 9

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 6

## 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:** Acids.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** See subsection 5.2.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

#### Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	>4000	mg/kg
ORAL	RAT	LD50	500-2000	mg/kg
INHALATION	RAT	4H LC50	>5.4	mg/l

#### Hazardous ingredients:

##### MECOPROP-P

DERMAL	RBT	LD50	>4000	mg/kg
DUST/MIST	RAT	4H LC50	>5.6	mg/l
ORAL	RAT	LD50	431 - 1050	mg/kg

##### POTASSIUM HYDROXIDE

ORL	RAT	LD50	273	mg/kg
-----	-----	------	-----	-------

#### Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	ING	Based on test data

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 7

Irritation	OPT DRM	Based on test data
------------	---------	--------------------

## Symptoms / routes of exposure

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

**Eye contact:** \* There may be pain and redness. The eyes may water profusely. The vision may become blurred. May cause permanent damage.

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

**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

**Hazardous ingredients:**

#### MECOPROP-P

ALGAE	72H EC50	16.2	mg/l
DAPHNIA	48H EC50	>91	mg/l
FISH	96H LC50	>100	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** \* Readily biodegradable. Mecoprop-P: DT50(soil) = 6.3 - 8.2 days.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** \* Potential for bioaccumulation is low. Mecoprop-P: Log Kow at 20°C = 0.02 (pH 7), -0.18 (pH 9).

### 12.4. Mobility in soil

**Mobility:** \* Mecoprop-P: Koc = 20 - 43 (pH 5.6 - 7.6); 135 - 167 (pH 4.3 - 4.4).

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

**Other adverse effects:** No data available.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** \* Dispose of product and packaging in accordance with The Green Code (the Code of Practice for the safe use of pesticides on farms and holdings), a MAFF publication.

**Waste code number:** \* 02 01 08

**Disposal of packaging:** \* Do not re-use empty containers. Dispose of as unused product.

[cont...]

# SAFETY DATA SHEET

OPTICA

Page: 8

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

## Section 14: Transport information

### 14.1. UN number

UN number: N/A

### 14.2. UN proper shipping name

Shipping name: NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

### 14.3. Transport hazard class(es)

Transport class: N/A

### 14.4. Packing group

Packing group: N/A

### 14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

### 14.6. Special precautions for user

Special precautions: No special precautions.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: The product is not transported in bulk tankers.

## Section 15: Regulatory information

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

Specific regulations: Product Registration Number: MAPP 14373.

### 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 s.3:** EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H318: Causes serious eye damage.

[cont...]



## SAFETY DATA SHEET

OPTICA

Page: 9

H411: Toxic to aquatic life with long lasting effects.

R22: Harmful if swallowed.

R35: Causes severe burns.

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

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.