

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

### 1.1. Product identifier

**Product name:** FOUNDATION

**Product code:** 10233

### 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; Aquatic Chronic 2: H411; -: 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.

H411: Toxic to aquatic life with long lasting effects.

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

# SAFETY DATA SHEET

## FOUNDATION

Page: 2

**Signal words:** \* Danger

**Hazard pictograms:** \* GHS05: Corrosion

GHS07: Exclamation mark

GHS09: Environmental



**Precautionary statements:** \* P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.

P302+352: IF ON SKIN: Wash with plenty of water/.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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:** S2: Keep out of the reach of children.

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

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

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

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

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

## FOUNDATION

Page: 3

### Hazardous ingredients:

MECOPROP-P, POTASSIUM SALT

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	66423-05-0	Xn: R22; Xi: R41; N: R51/53	Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 2: H411	50-70%

DICAMBA, POTASSIUM SALT

233-002-7	10007-85-9	Xi: R36; -: R52/53	Eye Irrit. 2: H319; Aquatic Chronic 3: H412	1-10%
-----------	------------	--------------------	--	-------

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

215-181-3	1310-58-3	Xn: R22; C: R35	Acute Tox. 4: H302; Skin Corr. 1A: H314	1-10%
-----------	-----------	-----------------	--	-------

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** \* Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Consult a doctor if irritation develops.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Do not induce vomiting. Wash out mouth with water. 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. May cause permanent damage.

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

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

**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.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Do not use high volume water jet.

[cont...]

# SAFETY DATA SHEET

FOUNDATION

Page: 4

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

**Exposure hazards:** \* In combustion emits toxic fumes. Chlorine gas, hydrogen chloride and carbon monoxide 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. If there is accidental release into water courses, drains, soil or vegetation, immediately contact the relevant authorities.

## 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.

### 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. Avoid the formation or spread of mists in the air. Ensure there is sufficient ventilation of the area. Clean protective clothing and protective equipment with soap and water after use. Collect all wash water and dispose of as hazardous waste.

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

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

**Suitable packaging:** \* Must only be kept in original packaging.

### 7.3. Specific end use(s)

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

[cont...]

# SAFETY DATA SHEET

FOUNDATION

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. 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 goggles. Ensure eye bath is to hand.

**Skin protection:** 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:** Phenolic

**Oxidising:** Non-oxidising (by EC criteria)

**Solubility in water:** Miscible

**Viscosity:** \* 72.8 mPa.s

**Boiling point/range°C:** >100

**Flash point°C:** >200

**Autoflammability°C:** >600

**Relative density:** Approx. 1.30

**pH:** Approx. 9.6

### 9.2. Other information

**Other information:** \* Surface tension: 71.9 mN/m

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

[cont...]

**SAFETY DATA SHEET**  
FOUNDATION

Page: 6

**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. See subsection 5.2.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**\* Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	775	mg/kg
DERMAL	RAT	LD50	>4000	mg/kg

**Hazardous ingredients:**

**MECOPROP-P, POTASSIUM SALT**

DERMAL	RAT	LD50	>4000	mg/kg
INHALATION	RAT	4H LC50	>5.6	mg/l
ORAL	RAT	LD50	431	mg/kg

**DICAMBA, POTASSIUM SALT**

DERMAL	RABBIT	LD50	>2000	mg/kg
INHALATION	RAT	4H LC50	>9.6	mg/l
ORAL	RAT	LD50	1707	mg/kg

**POTASSIUM HYDROXIDE**

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

**Relevant effects for mixture:**

Effect	Route	Basis
--------	-------	-------

[cont...]

# SAFETY DATA SHEET

FOUNDATION

Page: 7

Acute toxicity (harmful)	ING	Hazardous: calculated
Irritation	OPT 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 pain and redness. The eyes may water profusely. May cause permanent damage.

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

**Inhalation:** Absorption through the lungs can occur causing symptoms similar to those of ingestion.

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

## Section 12: Ecological information

### 12.1. Toxicity

**Hazardous ingredients:**

#### MECOPROP-P, POTASSIUM SALT

ALGAE	72H ErC50	16.2	mg/l
BEE	48H LD50 (oral)	>100	µg/bee
BIRD	LD50	497	mg/kg
DAPHNID (Daphnia magna)	48H EC50	>91	mg/l
DUCKWEED (Lemna gibba)	7d EbC50	1.6	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l
WORM	14d LC50	>988	mg/kg

#### DICAMBA, POTASSIUM SALT

ALGAE	96H NOErC	25	mg/l
ALGAE (Skeletonema costatum)	72H EbC50	1.8	mg/l
BEE	48H LD50 (contact)	>100	µg/bee
BEE	48H LD50 (oral)	>100	µg/bee
BIRD (Anas platyrhynchos)	LD50	1373	mg/kg
DAPHNID (Daphnia magna)	48H EC50	110	mg/l
DUCKWEED (Lemna minor)	7d EbC50	0.45	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	>100	mg/l
WORM (Eisenia foetida)	14d LC50	>1000	mg/kg

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

[cont...]

# SAFETY DATA SHEET

FOUNDATION

Page: 8

## 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:** Toxic to aquatic organisms.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** \* Waste that cannot be reused or chemically reprocessed can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

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

**Disposal of packaging:** \* Dispose of in a regulated landfill site or other method for hazardous or toxic wastes. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

**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.

[cont...]



**SAFETY DATA SHEET**  
FOUNDATION

Page: 9

**Section 15: Regulatory information**

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

**Specific regulations:** Product Registration Number: MAPP 16414.

**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.

For Transport - ADR classification based on using own data and according to the criteria of 2.2.9.1.10.3 and 2.2.9.1.10.4 of ADR 2011

**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.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

R22: Harmful if swallowed.

R35: Causes severe burns.

R36: Irritating to eyes.

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.

R52/53: Harmful 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.