

**Grassland Herbicide**

Preparation Date 26-Jun-2013

Revision Date 26-Jun-2013

Revision Number: 1

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Identification of the product**

**Product Code** HCD02  
**Product Description:** Grassland Herbicide  
**Pure substance/preparation** Preparation

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

**Recommended Use** Herbicide

**1.3 Details of the supplier of the safety data sheet**

**Supplier** United Phosphorus Ltd  
The Centre  
Birchwood Park  
Warrington  
WA3 6YN  
Cheshire, UK  
Tel. : +44 (0) 1925 819999  
Fax : +44 (0)1925 856075

**E-mail Address** info.uk@uniphos.com

**1.4 Emergency telephone number**

**Emergency Telephone Number** **(CARECHEM 24): +44 (0) 1235 239670**

**United Kingdom** NHS Direct (UK): +44 0845 46 47

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the mixture

<b>Symbol(s)</b>	Xn - Harmful N - Dangerous for the environment
<b>R-code(s)</b>	Xn;R22 Xi;R38 Xi;R41 R43 N;R51/53

For the full text of the R phrases mentioned in this Section, see Section 16

### 2.2 Label Elements



**Symbol(s)**  
Xn - Harmful  
N - Dangerous for the environment

**R -phrase(s)**  
R22 - Harmful if swallowed  
R38 - Irritating to skin  
R41 - Risk of serious damage to eyes  
R43 - May cause sensitization by skin contact  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S -phrase(s)**  
S25 - Avoid contact with 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  
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  
S57 - Use appropriate container to avoid environmental contamination

### 2.3 Other hazards

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2. Mixtures

Chemical Name	EC No.	CAS-No	Weight %	Classification (Dir.67/548)	EU - GHS Substance Classification	REACH No.
MCPA (4-Chloro-o-tolyloxyacetic acid)	202-360-6	94-74-6	10 - 20	Xi;R38 Xi;R41 Xn;R22 N;R51-53	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Dicamba	217-635-6	1918-00-9	1 - 5	R52-53 Xi;R41 Xn;R22	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	No data available
mecoprop-P [1] and its salts	240-539-0	16484-77-8	10 - 20	Xi;R41 Xn;R22 N;R51/53	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Aquatic Chronic 2 (H411)	No data available

For the full text of the R phrases mentioned in this Section, see Section 16

For the full text of the H-Statements mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### 4.1 Description of first-aid measures

<b>General Advice</b>	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Seek immediate medical attention/advice.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes If symptoms persist, call a physician
<b>Ingestion</b>	Do NOT induce vomiting Call a physician or poison control center immediately
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

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

No information available.

### 4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

<b>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ) Water spray alcohol-resistant foam Dry powder Dry chemical
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.

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

<b>Special hazard</b>	Burning produces obnoxious and toxic fumes.
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### 5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas  
Avoid contact with skin, eyes and clothing  
Wear protective gloves/clothing and eye/face protection.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so  
Do not allow material to contaminate ground water system  
Do not flush into surface water or sanitary sewer system

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### **Handling**

Ensure adequate ventilation  
Ensure that eyewash stations and safety showers are close to the workstation location  
Avoid contact with skin, eyes and clothing

#### **Hygiene Measures**

Do not eat, drink or smoke when using this product  
Wash hands after handling

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

Keep container tightly closed in a dry and well-ventilated place  
Keep out of the reach of children  
Store away from frost  
Keep away from food, drink and animal feeding stuffs

### 7.3 Specific end uses

No information available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Exposure limits** Apply technical measures to comply with the occupational exposure limits

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
MCPA (4-Chloro-o-tolyloxyacetic acid)			NDSch: 5 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup> Skin		

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2 Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas

#### Personal protective equipment

**Eye Protection** Safety glasses with side-shields.

**Skin Protection** Long sleeved clothing.

**Hand Protection** Protective gloves.

**Respiratory Protection** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Environmental exposure controls** No information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Brown
<b>Physical State</b>	Liquid
	Soluble concentrate
<b>Odor</b>	Phenolic

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	> 9	
<b>Melting point/freezing point</b>	No information available	
<b>Boiling Point/Range</b>	Not available	
<b>Flash Point</b>	> 100 °C	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Specific Gravity</b>	1.227 g/cm <sup>3</sup>	20°C
<b>Water Solubility</b>	No information available	
<b>Solubility in other solvents</b>	No information available	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	No information available	
<b>Decomposition temperature</b>	No information available.	
<b>Viscosity</b>	No information available	
<b>Oxidizing Properties</b>	No information available	
<b>Explosive Properties</b>	No information available	

### 9.2 Other information

<b>VOC Content</b>	No information available
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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No information available.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

No information available.

### 10.4 Conditions to Avoid

Avoid extreme high or low temperatures.

### 10.5 Incompatible materials

Strong acids  
Strong bases

### 10.6 Hazardous decomposition products

No information available

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### Local effects

###### Inhalation

There is no data available for this product.

###### Eye Contact

Risk of serious damage to eyes.

###### Skin Contact

Irritating to skin.

###### Ingestion

There is no data available for this product.

##### LD50 Oral

962 mg/kg Test substance: (MCPA) (rat)  
431 - 1,050 mg/kg Test substance: (mecoprop-P) (rat)  
> 1,707 mg/kg Test substance: (Dicamba) (rat)

##### LD50 Dermal

> 4,000 mg/kg Test substance: (MCPA) (rat)  
> 4,000 mg/kg Test substance: (mecoprop-P) (rabbit)  
> 2,000 mg/kg Test substance: (Dicamba) (rabbit)

##### LC50 Inhalation:

> 6.36 mg/l Test substance: (MCPA) (4 h00 - rat)  
> 5.6 mg/l Test substance: (mecoprop-P) (4 h00 - rat)  
4.46 mg/l Test substance: (Dicamba) (4-hr) (rat)

#### Chronic Toxicity

##### Skin corrosion/irritation

No information available.

##### Sensitization

May cause sensitization by skin contact.

##### Carcinogenic effects

No information available

##### Mutagenic Effects

No information available

##### Reproductive Effects

No information available

##### STOT - single exposure

No information available.

##### STOT - repeated exposure

No information available.



## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

**EC50/72h/algae =**

: 57 mg/l (MCPA)  
 : 16.2 mg/l (mecoprop-P)  
 > 3.7 mg/l (Dicamba)

**EC50/48h/daphnia =**

> 190 mg/l (MCPA)  
 > 91 mg/l (mecoprop-P)  
 : 110.7 mg/l (Dicamba)

**LC50/fish/96 h =**

> 100 mg/l (mecoprop-P)  
 : 50 mg/l (MCPA)  
 : 135.4 mg/l (Dicamba)

### 12.2 Persistence and degradability

No information available

### 12.3 Bioaccumulative potential

No information available

Chemical Name	log Pow
MCPA (4-Chloro-o-tolyloxyacetic acid)	2.86

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Waste from Residues / Unused Products**

Dispose of in accordance with local regulations.

**Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

**EWC waste disposal No**

020108 - agrochemical waste containing dangerous substances.

**Other Information**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**14. TRANSPORT INFORMATION****ADR/RID**

<b>14.1. UN-No</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (MCPA (4-Chloro-o-tolyloxyacetic acid), mecoprop-P [1] and its salts)
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	yes
<b>14.6 Special Provisions</b>	274, 335, 601
<b>Tunnel restriction code</b>	(E)

**IMDG/IMO**

<b>14.1. UN-No</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (MCPA (4-Chloro-o-tolyloxyacetic acid), mecoprop-P [1] and its salts)
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	Marine pollutant
<b>14.6 Special Provisions</b>	274, 335

**IATA/ICAO**

<b>14.1. UN-No</b>	UN3082
<b>14.2. Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s. (MCPA (4-Chloro-o-tolyloxyacetic acid), mecoprop-P [1] and its salts)
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>14.5 Environmental hazard</b>	yes
<b>14.6 Special Provisions</b>	A97, A158

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

Registration n° MAFF 08934

- To avoid risks to man and the environment, comply with the instructions for use

**International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ ELINCS</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>PICCS</b>	Complies
<b>ENCS</b>	Complies
<b>CHINA</b>	-
<b>AICS</b>	Complies
<b>KECL</b>	Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**15.2 Chemical Safety Assessment**

A chemical safety assessment has not been carried out.

**16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R22 - Harmful if swallowed

R38 - Irritating to skin

R41 - Risk of serious damage to eyes

R43 - May cause sensitization by skin contact

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

**Full text of H-Statements referred to under sections 2 and 3**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

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

**Revision Date** 26-Jun-2013**Revision Note** not applicable**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006****Disclaimer**

The information contained is based on our knowledge of the product at the date of publishing.

It applies to the PRODUCT AS SUCH. In case of formulation or mixture, make sure that a new danger will not appear.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended.

This sheet shall only be used and duplicated for prevention and Safety purposes.

For rates and use recommendations, refer to the information displayed on the packaging.

It is the responsibility of the handlers of the product to pass on this safety data sheet to any subsequent persons who will come into contact with the product.

**End of Safety Data Sheet**