



SAFETY DATA SHEET

HYSWARD P

Compilation date: 18/05/2015

Revision No: 1

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

1.1 Product identifier

Product Name: Hysward P
Product Number(s):

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

Controls broad leaved weeds in cereal and grasslands.

1.3 Details of the supplier of the safety data sheet

Agrichem (International) Limited,

Industrial Estate, Station Road, Whittlesey,

Cambs. PE7 2EY, United Kingdom

Tel: 01733-204019

Fax: 01733-204162

Email: admin@agrichem.co.uk

1.4 Emergency telephone number

Emergency tel: 01733-204019

Section 2: Hazards Identification

2.1 Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]

Eye Dam. 1: H318; Aquatic Chronic 3: H412

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):



Hazard pictogram: GHS05

Signal words: Danger

Hazard statements: H318: Causes serious eye damage
H412: Harmful to aquatic life with long lasting effects
EUH401: To avoid risk to human health and the environment,
comply with the instructions for use.

Precautionary P264: Wash hands thoroughly after handling.

Statements: P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312: Immediately call a POISON CENTRE or doctor/physician if you feel unwell.

P362: Take off contaminated clothing and wash before reuse.

P501: Dispose of contents/container to an licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3 Other hazards

Not available

Section 3: Composition/information on ingredients

3.1 Substances

Not available

3.2 Mixtures

Name	No.	Classification	% Wt.
(4-chloro-2-methyl phenoxy) acetic acid, potassium salt (MCPA-K)	CAS No: 5221-16-9 EINECS: 226-015-4	Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Acute Tox. 4: H312 Acue Tox. 4: H332	5-10%
(R)-2-(4-chloro-2-methyl phenoxy) propionic acid, potassium salt (CMPP-PK)	CAS No: 66423-05-0 EINECS: 240-539-0	Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Dam. 1: H318	5-10%
3,6-dichloro-2-methoxy benzoic acid (Dicamba Potassium Salt)	CAS No: 1918-00-9 EINECS: 217-635-6	Acute Tox. 4: H302; Acute Tox. 4: H332; Eye Dam. 1: H318 Aquatic Chronic 2: H411	1-5%
Potassium Hydroxide	CAS No: 1310-58-3 EINECS: 215-181-3	Skin Corr. 1A: H314 Acute Tox. 4: H302	0-0.5%

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for at least 10 minutes maintaining eyelids open. Protect unharmed eye. Take care not to wash the chemical from one eye into the other. Obtain medical attention immediately (show this Safety Data Sheet)

Skin Contact: Remove contaminated clothing immediately. If skin contamination occurs wash immediately with plenty of clean, gently flowing water for at least 10 minutes.

- Repeat skin decontamination process until all signs of chemicals have gone. Obtain medical attention immediately (show this Safety Data Sheet)
- Ingestion:** If ingestion is suspected, do not induce vomiting. If conscious, drink plenty of water. Obtain medical attention immediately (show this Safety Data Sheet)
- Inhalation:** Move to fresh air. If there is breathing difficulty or coughing, keep patient at rest seated in position of maximum comfort. Obtain medical attention immediately (show this Safety Data Sheet)
- 4.2 Most important symptoms and effects, both acute and delayed**
Not available
- 4.3 Indication of any immediate medical attention and special treatment needed**
Immediately wash eyes with water

Section 5: Firefighting Measures

- 5.1 Extinguishing media**
Extinguish with carbon dioxide, dry chemical, foam or water spray
- 5.2 Special hazards arising from the substance or mixture**
In combustion emits toxic fumes
- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

Section 6: Accidental Release Measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Wear appropriate protective clothing (see Section 8)
- 6.2 Environmental precautions**
Do not allow product to enter drains or water courses
- 6.3 Methods and material for containment and cleaning up**
Soak up with inert absorbent material, place in suitable labelled containers and dispose as hazardous waste
- 6.4 Reference to other sections**
Where appropriate, refer to Sections 8 & 13

Section 7: Handling and Storage

- 7.1 Precautions for safe handling**
When using, do not eat, drink or smoke. Avoid direct contact with the substance
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep containers tightly closed in a dry, cool and well-ventilated place to which children do not have access. Keep away from food, drink and animal feedingstuff
- 7.3 Specific end use(s)**
Not Available

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

MCPA-K 400g/l

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10mg/m ³	20 mg/m ³	-	-

DNEL/PNEC Values: No data available

CMPP-PK 600g/l

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	10mg/m ³	20 mg/m ³	-	-

DNEL/PNEC Values: No data available

Dicamba

WEL (8hr TWA) 10 mg/m³

Potassium Hydroxide

WEL (short term value) 2 mg/m³

8.2 Exposure Controls

Engineering Control Measures:

The usual precautionary measures for handling chemicals should be observed

Hygiene Measures:

When using do not eat, drink or smoke. Shower or bathe at the end of working

Respiratory Protection:

Wear suitable respiratory equipment

Skin and Body:

Wear suitable protective clothing

Hands:

Wear chemical resistant gloves

Eyes:

Wear suitable eye/face protection

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Clear brown liquid
Odour:	Slight
pH:	(9-11.50)
Specific Gravity:	1.09 g/ml @ 20°C (typical)
Boiling Point:	No data available
Melting Point/Range:	Not applicable, aqueous solution
Decomposition Temp.:	No data available
Flash Point:	No data available
Auto Ignition Temp.:	No data available
Flammability (solid, gas):	Not flammable under normal handling
Explosive Properties:	None known

Oxidising Properties:	None known		
Vapour Pressure:	No data available		
Bulk Density:	No data available		
Solubility:	Water Solubility:	Soluble in H ₂ O	
	Fat/Solvent Solubility:	No data available	
Viscosity:	No data available		
Partition Coefficient:	(CMPP-P)	Log P _{ow} = -0.39 @ pH 7	
	(Dicamba)	Log P _{ow} = -1.9 (Octanol/Water; 25°C; pH 8.9)	
	(MCPA)	Log P _{ow} = -0.71 @ pH 7	

9.2 Other information

No data available

Section 10: Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

Not Available

10.4 Conditions to avoid

Avoid direct heat protect from frost

10.5 Incompatible materials

Avoid strong acids, strong bases and oxidising agents

10.6 Hazardous decomposition products

May generate toxic fumes of carbon dioxide and carbon monoxide

Section 11: Toxicological information

11.1 Information on toxicological effects

MCPA-K 400g/l

Toxicity Values:

Route	Species	Test	Value	Units
DUST/MIST	RAT	4h LC ₅₀	>5.21	mg/l
ORL	RAT	LD ₅₀	1662	mg/kg
DERMAL	RBT	LD ₅₀	>2000	mg/kg

Excluded Hazards for Substance:

Hazard	Route	Basis
Skin corrosion/irritation	-	Based on available data the classification criteria are not met
Respiratory/skin sensitisation	-	Based on available data the classification criteria are not met
Germ cell mutagenicity	-	Based on available data the classification criteria are not met
Carcinogenicity	-	Based on available data the classification criteria are not met
Reproductive toxicity	-	Based on available data the classification criteria are not met

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

CMPP-PK 600g/l**Toxicity Values:**

Route	Species	Test	Value	Units
Eye damage	Rabbit	-	Severe	-
IHL	Rat	LC ₅₀	>5.4	mg/l
ORL	Rat	LD ₅₀	500-2000	mg/kg
SKN	Rat	LD ₅₀	>2000	ml/kg
Skin corrosion	Rabbit	-	Irritant	-

Relevant Hazards for Substance:

Effect	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data

Excluded Hazards for Substance:

Hazard	Route	Basis
Respiratory/skin sensitisation	-	Based on available data the classification criteria are not met
Germ cell mutagenicity	-	Based on available data the classification criteria are not met
Carcinogenicity	-	Based on available data the classification criteria are not met
Reproductive toxicity	-	Based on available data the classification criteria are not met

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: No symptoms
Delayed/Immediate Effects: Immediate effects can be expected after short-term exposure

Dicamba Technical (≥ 97% w/w)

Acute Toxicity: LD₅₀/oral/rat 1879 mg/kg
LD₅₀/dermal/rat >2000 mg/kg
LC₅₀/inhalation/4h/rat 5.19 mg/l air

Eye Irritation: Severely irritating
Skin Irritation: Mildly irritating

Sensitization: Not skin sensitising
Mutagenic/Carcinogenic/ Negative
Teratogenicity/Reproductive/STOT:

Potassium Hydroxide

Toxicity: LD₅₀/oral/rat = 273 mg/kg. Strong caustic effect
Inhalation: No data available
Eye: Strong caustic effect
Skin: Strong caustic effect
Sensitization: None known
Mutagenic/Carcinogenic/ No data available
Teratogenicity/Reproductive/STOT:

Section 12: Ecological Information

12.1 Ecotoxicity Values:

MCPA-K 400g/l

Species	Test	Value	Units
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	96h LC ₅₀	>100	mg/l
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	NOEC	80	mg/l (DMA Salt)
Daphnia	48h EC ₅₀	>100	mg/l
Daphnia	NOEC	50	mg/l (DMA Salt)
Algae	72h or 96h ErC ₅₀	>100	mg/l
Lemna	72h or 96h ErC ₅₀	>64	mg/l

CMPP-PK 600g/l

Species	Test	Value	Units
Daphnia magna	NOEC	22.2	mg/l (MCPP-p)
Lemna minor	72h or 96h ErC ₅₀	1.6	mg/l (MCPP-p)
Pseudokirchneriella subcapitata	72h or 96h ErC ₅₀	16.2	mg/l (MCPP-p)
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	96h LC ₅₀	>100	mg/l (MCPP-p)
Rainbow Trout (<i>Oncorhynchus mykiss</i>)	NOEC	>50	mg/l (MCPP-p)
Daphnia magna	48h EC ₅₀	>91	mg/l (MCPP-p)

Dicamba Technical

Toxicity to Fish: LC₅₀ *Oncorhynchus mykiss* (Rainbow Trout) 135.4 mg/l, 96h
Toxicity to Aquatic Invertebrates: EC₅₀ *Daphnia magna* (Water Flea) 110.7 mg/l, 48h

Toxicity to Aquatic Plants: EbC₅₀ *Anabaena flos-aquae* (Bluegreen algae) 43.1 mg/l, 72h
 ErC₅₀ *Anabaena flos-aquae* (Bluegreen algae) 44.9 mg/l, 72h
 NOEC *Lemna gibba* (Duckweed) 0.25 mg/l, 14d

Toxicity to Bacteria: IC₅₀ activated sewage sludge >500 mg/l, 3h

Potassium Hydroxide

LC₅₀ (96h) 80 mg/l (*Gambusia affinis*)

12.2 Persistence & Degradability

- Readily biodegradable
- 12.3 Bioaccumulative Potential**
Potential for bioaccumulation is low based on log Pow
- 12.4 Mobility**
Fairly mobile but rapidly degraded in aerobic soils
- 12.5 Results of PBT and vPvB assessment**
This product is not identified as a PBT/vPvB substance
- 12.6 Other Adverse Effects**
No further relevant information available

Section 13: Disposal considerations

13.1. Waste treatment methods

- Product Disposal:** Dispose of according to local and national regulations
- Container Disposal:** Triple rinse containers with water and dispose of according to local and national regulations

Section 14: Transport Information

Not classified as hazardous for road transport under ADR

- 14.1 UN number**
- 14.2 UN proper shipping name**
- 14.3 Transport hazard class(es)**
- 14.4 Packing group**
- 14.5 Environmental hazards**
- 14.6 Special precautions for user**
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Section 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No data available
- 15.2 Chemical safety assessment**
No data available

Section 16: Other information

Text of Phrases mentioned in Sections 2 and 3:

- H302** Harmful if swallowed
- H314** Causes severe skin burns and eye damage
- H318** Causes serious eye damage
- H411** Toxic to aquatic life with long lasting effects
- H412** Harmful to aquatic life with long lasting effects
- H400** Very toxic to aquatic life
- H410** Very toxic to aquatic life with long lasting effects
- H312** Harmful in contact with skin

H332 Harmful if inhaled
EUH401 To avoid risk the human health and the environment, comply with the

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 guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of 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