

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: Hyprone Plus
Product Number(s): P4433 (5L), G4435 (20L)

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

Controls broad leaved weeds in cereals and grassland

1.3 Details of the supplier of the safety data sheet

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway
Tel: 091-794722 Fax: 091-794738 email: services@hygeia.ie

1.4 Emergency telephone number

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

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

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

P501: Dispose of contents/container to an approved waste disposal plant

P310: Immediately call a POISON CENTRE or doctor/physician

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

P101: If medical advice is needed, have product container or label at hand

P102: Keep out of reach of children

P103: Read label before use

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 (STEL) 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} = -0.81 @ pH 7.5-8.5

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

In combustion emits toxic fumes

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	-

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 1581 mg/kg
 LD₅₀/dermal/rat >2000 mg/kg
 LC₅₀/inhalation/4h/rat 4.46 mg/l air
Eye Irritation: Severely irritating
Skin Irritation: Mildly irritating
Sensitization: Not skin sensitising
Mutagenic/Carcinogenic/ Teratogenicity/Reproductive/STOT: Negative

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/ Teratogenicity/Reproductive/STOT: No data available

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

No data available

12.3 Bioaccumulative Potential

Potential for bioaccumulation is low based on log Pow

12.4 Mobility

No data available

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:****H-Statements**

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

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