

## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** HY-MCPA  
**Synonyms:** MCPA DMA 500G/L ,Agroxone,T039A  
**Formula:** Aqueous solution of 4-chloro-2-methylphenoxy) acetic acid as the dimethylamine salt.  
**Approved Use:** Herbicide  
**Supplier:** Barclay Chemicals Manufacturing Ltd.,  
Damastown Way  
Damastown Industrial Park  
Mulhuddart  
Dublin 15  
Ireland.  
**Telephone No:** 00-353-1-8112900  
**Fax No:** 00-353-1-822 4678  
**Issued By:** Barclay Chemicals Ltd.

**EMERGENCY TELEPHONE NUMBER: 00-353-1-8112900 (9am to 5pm)**  
**00-353-863857769 (5pm to 9am)**

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

No.	Name
1.	4-chloro-2-methylphenoxy) acetic acid, dimethylamine salt. [Xn] R20/21/22
2.	4-chloro-2-methylphenol [T] R23 C: R35 N: R50.
3.	Dimethylamine F+; R12 Xn; R20/22 C; R34.

No.	CAS No.	EC No.	Concentration
1.	2039-46-5	218-014-2	53.9
2.	1570-64-5	216-381-3	0.3
3.	124-40-3	204-697-4	0.5

### 3. HAZARDS IDENTIFICATION

**Human:** Harmful if swallowed and in contact with the skin.  
Risk of serious damage to eyes.

#### 4. FIRST-AID MEASURES

<b>General:</b>	If a person feels unwell after coming into contact with this product then seek medical attention immediately. Remove contaminated clothing and wash thoroughly with soap and water. If unconscious, check breathing and pulse (heartbeat). Give artificial ventilation and chest compression if necessary. If unconscious but breathing and pulse are normal. Place in recovery position.
<b>Inhalation:</b>	Remove patient from exposure. If there is breathing difficulty or cough keep patient at rest, seated in position of maximum comfort.
<b>Skin Contact:</b>	Remove contaminated clothing immediately and wash with soap and gently running water for 10 minutes, send promptly to doctor or hospital. Repeat skin decontamination procedures until all signs of chemical have gone.
<b>Eye Contact:</b>	Irrigate with clean water for at least 15 minutes. Protect unharmed eye
<b>Ingestion:</b>	If suspected do not induce vomiting, send immediately to hospital. If conscious, drink plenty of water.

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#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Extinguish with waterspray, dry chemical, foam or Carbon dioxide. Product may be harmful to wildlife-DO NOT release chemically contaminated water into drains, soil or surface water - prevent run off. Retain for safe disposal.
<b>Protective Equipment:</b>	Fumes may be toxic, wear breathing apparatus.

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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Protection</b>	Avoid contact with skin, eyes, or clothing. Do not inhale mists, aerosols or dusts. Avoid ingestion. Wear suitable protective clothing, boots, gloves, eye and face protection. Do NOT contaminate surface waters or ditches with chemical or used containers.
<b>Environmental Precautions:</b>	Minimise spray drift onto adjoining fields or water bodies. Do not allow product to enter drains.
<b>Methods for Cleaning Up:</b>	Contain and absorb spillage with inert, absorbent material eg. sand or sawdust. Place in a suitable labelled container and dispose of as hazardous waste.

NB. Inform local Water PLC immediately if spillage enters drains and report any contamination of surface water or ground waters to the National Rivers Authority or River Purification Board.

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## 7. HANDLING AND STORAGE

<b>Handling:</b>	Ensure there is sufficient ventilation of the area. Avoid contact with skin/eyes. Do NOT inhale mists. Avoid ingestion. When using do not eat, drink or smoke.
<b>Storage:</b>	Store and load away from foodstuffs and seeds
<b>Packing:</b>	Keep tightly closed in original container and store in a suitable pesticide store. 10 litre HDPE freestanding jerricans.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### National Occupational Exposure

#### Limits:

(4-chloro-2-methylphenoxy) acetic acid, dimethylamine salt:

None assigned in current UK HSE publication EH40: Occupational exposure limits. Based on the value for the technical 2,4-D acid the calculated salt equivalent long term limits is  $11\text{mg/m}^3$  (8hr TWA reference period) or  $22\text{mg/m}^3$  (15 min reference period).

4-chloro-2-methylphenol:

None assigned in current UK HSE publication EH40.

Dimethylamine:

Long term exposure limit (8 hour TWA reference period)  $3.8\text{mg/m}^3$ .  
Short term exposure limit (15 minutes reference period)  $11\text{mg/m}^3$

#### Precautions:

The usual precautionary measures for handling chemicals should be observed. Use only in an area provided with appropriate exhaust ventilation.

In case of insufficient ventilation wear suitable respiratory equipment.

Wear suitable protective gloves (EN 374:1994) when handling the concentrate.

Wear suitable eye/face protection.

Wash concentrate from skin immediately. Wear suitable protective clothing.

Handle in accordance with good industrial hygiene and safety practice. Shower or bathe at end of working.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Clear dark brown liquid
<b>Odour:</b>	Amine -like
<b>Melting Point</b>	N/A , Aqueous solution
<b>Boiling Point</b>	>100 °C
<b>Relative Density</b>	1.120-1.150
<b>Solubility in water</b>	Fully miscible in water

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## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Is stable under recommended storage conditions
<b>Conditions to Avoid:</b>	Exothermic reaction with strong acids
<b>Materials to Avoid:</b>	Strong Acids and oxidizing agents
<b>Hazardous Decomposition Products:</b>	Carbon monoxide, carbon dioxide, nitrogen oxides( $\text{NO}_x$ )hydrogenchloride gas.

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## 11. TOXICOLOGICAL INFORMATION

<b>Ingestion:</b>	Harmful if Swallowed. $\text{LD}_{50}$ /oral/rat = 1239 (1060 - 1448) mg/kg for males and females.
<b>Skin Contact:</b>	Classified by Chemicals (Hazard Information and Packaging for Supply) Regulations as Harmful in Contact with Skin.
<b>Dermal LD50:</b>	Dermal (rat) = >2000 mg/kg
<b>Eye Contact:</b>	Risk of serious damage to eyes. Always wear suitable eye protection when handling chemicals.
<b>Inhalation</b>	Classified by Chemicals (Hazard Information and Packaging for Supply) Regulations as Harmful by Inhalation
<b>Inhalation LC50:</b>	4hour rat >5.09mg/l.

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## 12. ECOLOGICAL INFORMATION

<b>Aquatic Toxicity:</b>	4hour rat >5.09mg/l.
<b>Persistence and Degradability:</b>	Fairly mobile, but rapidly degraded in aerobic soils. Rapidly degraded in aerobic soils (aerobic half life MCPA = 24 days).

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## 13. DISPOSAL CONSIDERATIONS

<b>Product and Waste,( including containers)</b>	By incineration in accordance with the current UK legislation. For minor incidents or unwanted product follow the guidance of the disposal of pesticides and containers as given in part 5 of the MAFF/HSE Pesticide Code of Practice for the safe use of  Pesticides on Farms and Holdings.
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## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of the Transport Regulations

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## 15. REGULATORY INFORMATION

**Xn**

**Hazard Symbol :** Xn - Harmful

**R- PHRASES:**

- R20/21/22** - Harmful by Inhalation, in contact with skin and if swallowed.  
**R41** - Risk of serious damage to eyes

**S- PHRASES:**

- S26** - In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice  
**S36/37/39** - Wear suitable protective clothing, gloves and eye/face protection

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## 16. OTHER INFORMATION

Revision 0      Date Prepared: 04/10/06  
Revision 1      Date Prepared: 11/12/06      Emergency phone number updated

**DISCLAIMER**

*The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.*

*This Material Safety Data Sheet was prepared according to Directive 2001/58/EC.*