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

1.1 Product identifier
Product Name: Agroxone 50
Product Number(s): P4403 (5L), G4404 (10L)

1.2 Relevant identified uses of the substance or mixture and uses advised against
Selective herbicide for the control of weeds in cereals and established 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]
Acute Tox. 4: H302; Eye Dam. 1: H318; Aquatic Chronic 3: H412

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

Hazard pictogram: GHS05:  GHS07: 

Signal words: Danger

Hazard statements:
H302: Harmful if swallowed
H318: Causes serious eye damage
H412: Harmful to aquatic life with long lasting effects

Precautionary statements:
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
P264: Wash exposed skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product
P280: Wear protective gloves/protective clothing/eye protection/face protection
P501: Dispose of contents/container to an approved waste disposal plant
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell
P330: Rinse mouth
P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician

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-methylphenoxy) acetic acid, dimethylamine salt	CAS No: 2039-46-5 EINECS: 218-014-2	H302 Acute Tox. 4; H315 Skin Irrit. 2; H318 Eye Dam. 1; H400 Aquatic Acute 1; H410 Aquatic Chronic 1	45-55%

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, rinse mouth. 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
Treat symptomatically

Section 5: Firefighting Measures

5.1 Extinguishing media
Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers. Suitable extinguishing media includes: water spray, dry powder, sand, foam and carbon dioxide

5.2 Special hazards arising from the substance or mixture
May give off toxic fumes in a fire (HCL, Cl_2, NO_x, CO)

5.3 Advice for firefighters
Chemical protection suit, suitable gloves for fire-fighters, boots and self-contained breathing apparatus. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment (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 (e.g. sand, silica gel, acid binder, universal binder). Place in suitable labelled containers and dispose as hazardous waste. Where appropriate, refer to Sections 8 & 13

6.4 Reference to other sections
Refer to Section 8

Section 7: Handling and Storage

7.1 Precautions for safe handling
When using, do not eat, drink or smoke. Wear personal protective equipment. Do not breathe vapours or spray mist

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 feedingstuffs. Store at room temperature in the original container

7.3 Specific end use(s)
Not Available

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Work Place Limits:	MCPA: 8h. TWA = 10 mg/m^3 15 min. STEL = 20 mg/m^3

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, PVC or nitrile rubber gloves
Eyes:	Wear suitable eye/face protection

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance:	Brown liquid
Odour:	Characteristic amine like
Start of Crystallisation:	ca. 0ºC
pH:	7.5 - 8.5
Specific Gravity:	1.115 - 1.145 g/ml @ 20°C
Boiling Point:	ca. 100ºC @ 1.013 hPa in aqueous solution
Melting Point/Range:	Not applicable, aqueous solution
Decomposition Temp.:	No data available
Flash Point:	>110ºC Method: EN/DIN 22719
Auto Ignition Temp.:	No data available

Flammability (Solid, Gas):	422ºC
Explosive Properties:	None known
Oxidising Properties:	Non-oxidising (by EC criteria)
Vapour Pressure:	Active Ingredient is an organic salt, vapour pressure is negligibly low
Bulk Density:	Not applicable, aqueous solution
Solubility (Water):	Soluble
Solubility (Fat Solvent):	No data available
Partition Coefficient:	-0.71 (MCPA Acid) n-Octanol/Water
Viscosity:	17.5m Pas

9.2 Other information

Not Available

Section 10: Stability and Reactivity

10.1 Reactivity

Not Available

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use

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 of carbon dioxide, carbon monoxide, hydrogen chloride and chlorine gas

Section 11: Toxicological Information

11.1 Information on toxicological effects

MCPA DMA

Acute Toxicity:	IHL Rat LC_{50} >5 mg/kg ORL Rat LD_{50} 1239 mg/kg SKN Rat LD_{50} >2000 mg/kg
Eyes:	There may be irritation and redness. The eyes may water profusely
Skin:	There may be irritation and redness at the site of contact
Sensitization:	None known
Mutagenic/Carcinogenic/ Teratogenicity/Reproductive/ STOT:	No data available
Routes of Exposure:	Refer to Section 4 of SDS for routes of exposure and corresponding symptoms

Section12: Ecological Information

12.1 Ecotoxicity

MCPA DMA
Rainbow Trout: 96h/LC_{50}: 99.3 mg/l
Daphnia Maga: 48h/EC_{50}: 424.0 mg/l
Green Alga: 72h/IC_{50}: 60.7 mg/l

12.2 Persistence & Degradability
Biodegradable

12.3 Bioaccumulative Potential
No bioaccumulation potential

12.4 Mobility
Readily absorbed into soil

12.5 Results of PBT and vPvB assessment
This mixture is not identified as a PBT substance

12.6 Other Adverse Effects
Negligible ecotoxicity

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 MARP0L73/78 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
A chemical safety assessment has not been carried out for the substance or the mixture by the supplier

Section 16: Other Information

Text of Phrases mentioned in Sections 2 and 3:

H302	Harmful if swallowed
H318	Causes serious eye damage
H412	Harmful to aquatic life with long-lasting effects
H315	Causes skin irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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