

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

Product Name: Mortox 50  
Product Number(s): P4011 (5L), G4012 (10L), G4016 (20L)

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

Controls many weeds, including ragwort

**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](mailto: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; Skin Sens. 1: H317; Acute Tox. 4: H302; Aquatic Chronic 3: H412;  
Aquatic Acute 1: H400

**2.2 Label Elements**

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



**Hazard pictogram:** GHS05

GHS07

GHS09

**Signal words:** Danger

**Hazard statements:** H302: Harmful if swallowed  
H318: Causes serious eye damage  
H317: May cause an allergic skin reaction  
H400: Very toxic to aquatic life

**Precautionary**

**Statements:**

H412: Harmful to aquatic life with long lasting effects  
P270: Do not eat, drink or smoke when using this product  
P280: Wear protective gloves/protective clothing/eye protection/face protection  
P261: Avoid breathing dust/fume/gas/mist/vapours/spray  
P264: Wash hands thoroughly after handling  
P272: Contaminated work clothing should not be allowed out of the workplace  
P501: Dispose of contents/container to an approved waste disposal plant  
P310: Immediately call a POISON CENTRE or Doctor/Physician  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P302+P352: IF ON SKIN: Wash with plenty of soap and water  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321: Specific treatment (see..... on this label)  
P363: Wash contaminated clothing before reuse  
P330: Rinse mouth  
**(Highly recommended but not required)**  
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

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**Section 3: Composition/information on ingredients**

**3.1 Substances**  
Not available

**3.2 Mixtures**

Name	No.	Classification	% Wt.
(2,4-dichlorophenoxy) Acetic Acid, Dimethylamine Salt	CAS No: 2008-39-1 EINECS: 217-915-8	Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Chronic 2: H411	40-50%

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**Section 4: First Aid Measures**

**4.1 Description of First Aid Measures**

**General Advice:** Obtain medical attention immediately (show this Safety Data Sheet). If unconscious check breathing and pulse (heartbeat). Give artificial ventilation and chest compression if necessary. If unconscious but breathing and pulse is normal, place in the recovery position.

**Eye Contact:** If substance has got into the eyes, immediately wash out with plenty of water for at least 10 minutes maintaining eyelid 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:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If ingestion is suspected, 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**

- 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

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

Eye bathing equipment should be available on the premises

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### Section 5: Firefighting Measures

#### 5.1 **Extinguishing media**

Extinguish with carbon dioxide, dry chemical, foam or water spray. Use water spray to cool containers

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

Exposure hazards: 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

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### Section 6: Accidental Release Measures

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

Refer to Section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid

#### 6.2 **Environmental precautions**

Do not discharge into drains or rivers. Contain the spillage using bunding

#### 6.3 **Methods and material for containment and cleaning up**

Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method

#### 6.4 **Reference to other sections**

Refer to Section 8 of SDS

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### Section 7: Handling and Storage

#### 7.1 **Precautions for safe handling**

When using do not eat, drink or smoke

#### 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

#### 7.3 **Specific end use(s)**

No data available

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## Section 8: Exposure Controls/Personal Protection

### 8.1 Control Parameters

**Workplace Exposure Limits:** No data available

**DNEL/PNEC Values:** No data available

### 8.2 Exposure Controls

**Engineering Measures:** Ensure there is sufficient ventilation of the area. The floor of the storage must be impermeable to prevent the escape of liquids

**Respiratory Protection:** Self-contained breathing apparatus must be available in case of emergency

**Hand Protection:** Impermeable gloves

**Eye Protection:** Safety glasses. Ensure eye bath is to hand

**Skin Protection:** Impermeable protective clothing

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## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Brown liquid
<b>Odour:</b>	Characteristic of amines
<b>pH:</b>	7 - 8.5
<b>Specific Gravity:</b>	1.170 g/ml @ 20°C (typical)
<b>Boiling Point:</b>	>100°C
<b>Melting Point/Range:</b>	No data available
<b>Decomposition Temp.:</b>	No data available
<b>Flash Point:</b>	>200°C
<b>Auto Ignition Temp.:</b>	No data available
<b>Flammability:</b>	Not flammable
<b>Explosive Properties:</b>	Not Explosive
<b>Oxidising Properties:</b>	Non-oxidising (by EC criteria)
<b>Vapour Pressure:</b>	No data available
<b>Bulk Density:</b>	Not applicable
<b>Solubility (Water):</b>	Soluble
<b>Solubility (Fat Solvent):</b>	No data available
<b>Partition Coefficient:</b>	-0.83 @ pH 7 (Acid)
<b>Viscosity:</b>	No data available

### 9.2 Other information

No data available

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## Section 10: Stability and Reactivity

### 10.1 Reactivity

Stable under recommended transport or storage conditions

### 10.2 Chemical stability

Stable under normal conditions

### 10.3 Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below

- 10.4 Conditions to avoid**  
Avoid direct heat
- 10.5 Incompatible materials**  
Strong oxidising agents. Strong acids. Strong bases
- 10.6 Hazardous decomposition products**  
In combustion emits toxic fumes

## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Values:

Route	Species	Test	Value	Units
INL	-	LD <sub>50</sub>	>7.41	mg/l
ORL	-	LD <sub>50</sub>	>2000	mg/kg.bw
SKN	-	LD <sub>50</sub>	>2000	mg/l

#### 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

## Section 12: Ecological Information

### 12.1 Ecotoxicity Values:

Species	Test	Value	Units
Lemna	96H ErC <sub>50</sub>	2.7	mg a.e./l
Fish	96H LC50	59.9	mg/l
Daphnia	48H EC <sub>50</sub>	>100	mg/l
Algae	96H ErC <sub>50</sub>	>115.35	mg/l
Fish	NOEC	63.4	mg/l
Daphnia	NOEC	79	mg/l

- 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**  
Toxic to aquatic organisms

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## 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

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## Section 14: Transport Information

This product is 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

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## 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 by the supplier

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## Section 16: Other Information

### Text of Phrases mentioned in Sections 2 and 3:

- H302** Harmful if swallowed
- H317** May cause an allergic skin reaction
- H318** Causes serious eye damage
- H400** Very toxic to aquatic life
- H411** Toxic to aquatic life with long lasting effects
- H412** Harmful 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*