

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

Product Name: Mortone  
Product Number(s): P4405 (5L), P4407 (20L)

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

Controls many weeds, including soft rush and thistle

**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 Irrit. 2: H319; Aquatic Chronic 2: H411

**2.2 Label Elements**

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



<b>Hazard pictogram:</b>	GHS07: Serious Eye Damage/ Eye Irritation	GHS09: Hazardous to the Aquatic Environment
<b>Signal words:</b>	Warning	
<b>Hazard statements:</b>	H319: Causes serious eye irritation H411: Toxic to aquatic life with long lasting effects EUH401: To avoid risks to human health and the environment, comply with the instructions for use	
<b>Precautionary Statements:</b>	P280: Wear protective gloves/protective clothing/eye protection/face protection P264: Wash hands thoroughly after handling P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313: If eye irritation persists: Get medical advice/attention P501: Dispose of contents/container to an approved waste disposal plant 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**

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<b>Name</b>	<b>No.</b>	<b>Classification</b>	<b>% Wt.</b>
(4-Chloro-2-Methylphenoxy) Acetic Acid, Potassium Salt	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, H332	26.5%

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**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. 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:** 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

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

Eye bathing equipment should be available

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**Section 5: Firefighting Measures**

**5.1 Extinguishing media**

Suitable extinguishing media for the surrounding fire should be used. Water, Carbon Dioxide, Dry Chemical Powder, Alcohol resistant foam

**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**  
Avoid direct contact with substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air. Wear personal protective equipment
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in a cool, well ventilated area. Keep container tightly closed
- 7.3 Specific end use(s)**  
No data available

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**Section 8: Exposure Controls/Personal Protection****8.1 Control Parameters****(4-Chloro-2-Methylphenoxy) Acetic Acid, Potassium Salt**

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

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

**8.2 Exposure Controls**

**Engineering Control** Ensure there is sufficient ventilation of the area

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

**Hand Protection:** PVC gloves. Nitrile gloves

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

**Skin Protection:** Impermeable protective clothing. Ensure safety shower is to hand

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## Section 9: Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Appearance:</b>	Amber liquid
<b>Odour:</b>	Slight Phenolic
<b>pH:</b>	7 - 9.5
<b>Specific Gravity:</b>	1.14 g/ml (typical) @ 20°C
<b>Boiling Point:</b>	>100°C
<b>Melting Point/Range:</b>	Aqueous Solution
<b>Decomposition Temp.:</b>	No data available
<b>Flash Point:</b>	No data available
<b>Auto Ignition Temp.:</b>	No data available
<b>Flammability:</b>	Not flammable
<b>Explosive Properties:</b>	None known
<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>	Miscible
<b>Solubility (Fat Solvent):</b>	No data available
<b>Partition Coefficient:</b>	n-Octanol/Water -0.81 (MCPA)
<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

Heat. Flames

### 10.5 Incompatible materials

Strong oxidising agents. Strong acids. Strong bases

### 10.6 Hazardous decomposition products

In combustion emits toxic fumes

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## Section 11: Toxicological Information

### 11.1 Information on toxicological effects

#### Toxicity Values:

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

<b>Skin Contact:</b>	There may be irritation and redness at the site of contact
<b>Eye Contact:</b>	There may be irritation and redness. The eyes may water profusely
<b>Ingestion:</b>	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting
<b>Inhalation:</b>	There may be irritation of the throat with a feeling of tightness in the chest
<b>Delayed/Immediate Effects:</b>	Immediate effects can be expected after short-term exposure

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**Section12: Ecological Information****12.1 Ecotoxicity Values:**

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

**12.2 Persistence & Degradability**

Readily biodegradable

**12.3 Bioaccumulative Potential**

No bioaccumulation potential

**12.4 Mobility**

Readily absorbed into soil

**12.5 Results of PBT and vPvB assessment**

This product is not identified as a PBT/vPvB substance

**12.6 Other Adverse Effects**

Negligible ecotoxicity

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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**

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:****H-Statements**

- H302** Harmful if swallowed  
**H312** Harmful in contact with skin  
**H319** Causes serious eye irritation  
**H332** Harmful if inhaled  
**H400** Very toxic to aquatic life  
**H410** Very toxic to aquatic life with long lasting effects  
**H411** Toxic to aquatic life with long lasting effects  
**EUH401** To avoid risks to human health and the environment, comply with the instructions for use

*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*