

## SAFETY DATA SHEET

ROMAX MUSKIL WHOLE WHEAT

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Compilation date: 08/02/2018

Revision No: 1

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

#### 1.1. Product identifier

**Product name:** ROMAX MUSKIL WHOLE WHEAT

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

**Use of substance / mixture:** \* To be used only by professional users holding certification demonstrating compliance with UK rodenticide stewardship regime requirements. Read label before use. Using this product in a manner that is inconsistent with the label may be an offence. Refer to the CRRU UK Code of Best Practice (or equivalent) for guidance. When this product is supplied to a user for control of rodents, it shall only be supplied to a professional user holding certification demonstrating compliance with UK rodenticide stewardship regime requirements.

#### 1.3. Details of the supplier of the safety data sheet

**Company name:** J.V. Barrett & Co Ltd  
Barrettine Environmental Health Ltd  
St Ivel Way  
Warmley  
Bristol  
BS30 8TY  
United Kingdom  
**Tel:** +44 (0) 1179 672222  
**Fax:** +44 (0) 1179 614122  
**Email:** [beh@barrettine.co.uk](mailto:beh@barrettine.co.uk)

#### 1.4. Emergency telephone number

**Emergency tel:** +44 (0) 1179 672222 (Office hours only 8am - 5pm Mon- Thurs. 8 am - 4.30 pm Fri.)  
+44 (0) 1270 502891 (Out of hours emergency number)

### Section 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification under CLP:** Repr. 1B: H360D; STOT RE 2: H373

**Most important adverse effects:** May damage the unborn child. May cause damage to organs [blood] through prolonged or repeated exposure.

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## 2.2. Label elements

### Label elements:

- Hazard statements:** H360D: May damage the unborn child.  
H373: May cause damage to organs [blood] through prolonged or repeated exposure.
- Hazard pictograms:** GHS08: Health hazard



**Signal words:** Danger

- Precautionary statements:** P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust.  
P270: Do not eat, drink or smoke when using this product.  
P280: Wear protective gloves.  
P308+313: IF exposed or concerned: Get medical advice/attention.  
P405: Store locked up.  
P501: Dispose of contents/container to local regulations.

## 2.3. Other hazards

**Other hazards:** Danger of serious damage to health by prolonged exposure. CAS 28772-56-7; 3-[3-(4'-BROMOBIPHENYL-4-YL)-3-HYDROXY-1-PHENYLPROPYL]-4-HYDROXY-2H-CHROMEN-2-ON; fulfils the P, B and T criteria. CAS 56073-07-5; 3-(3-BIPHENYL-4-YL-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCOUMARIN; fulfils vP criteria.

**PBT:** This substance is identified as a PBT substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous ingredients:

PROPANE-1,2-DIOL - REACH registered number(s): 01-2119456809-23-XXXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-338-0	57-55-6	Substance with a Community workplace exposure limit.	-	1-10%

SUCROSE - REACH registered number(s): EXEMPT FROM ANNEX IV

200-334-9	57-50-1	Substance with a Community workplace exposure limit.	-	0.1-1%
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STARCH - REACH registered number(s): ANNEX IV EXEMPT

232-679-6	9005-25-8	Substance with a Community workplace exposure limit.	-	0.1-1%
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3-[3-(4'-BROMOBIPHENYL-4-YL)-3-HYDROXY-1-PHENYLPROPYL]-4-HYDROXY-2H-CHROMEN-2-ONE

249-205-9	28772-56-7	-	Acute Tox. 1: H300+310+330; Repr. 1B: H360D; STOT RE 1: H372; STOT RE 2: H373; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	<0.1%
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3-(3-BIPHENYL-4-YL-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCOUMARIN

259-978-4	56073-07-5	-	Acute Tox. 2: H300; STOT RE 1: H372; Aquatic Chronic 1: H410; Aquatic Acute 1: H400	<0.1%
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## Non-classified ingredients:

2,6-DI-TERT-BUTYL-P-CRESOL - REACH registered number(s): 01-2119480433-40-XXX

EINECS	CAS	PBT / WEL	CLP Classification	Percent
204-881-4	128-37-0	-	Aquatic Acute 1: H400; Aquatic Chronic 1: H410	<0.1%

## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible. Contact a veterinary surgeon in case of ingestion by a pet.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If conscious, ensure the casualty sits or lies down. If unconscious and breathing is OK, place in the recovery position. If unconscious, check for breathing and apply artificial respiration if necessary. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

### 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.

[cont...]

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**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. This product contains an anticoagulant substance. If ingested, symptoms, which may be delayed, may include nosebleed and bleeding gums. In severe cases there may be bruising and blood present in the faeces or urine. Contains anticoagulant which may produce bleeding; this may be delayed for several days after exposure. If there is no active bleeding the INR (prothrombin time) should be measured on presentation and 48-72 hours after exposure. If the INR is greater than 4, administer Vitamin K1 (phytomendione) 5-10 mg by slow intravenous injection (100 µg/kg body weight for a child). The advice of the National Poisons Information Service (<http://www.npis.org/>) should be sought, particularly if active bleeding occurs.

## Section 5: Fire-fighting measures

### 5.1. Extinguishing media

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide. Dry chemical powder. Fight larger fires with water spray.

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

**Exposure hazards:** In combustion emits toxic fumes.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Contain the spread of the firefighting media. Do not allow run-off from firefighting to enter drains or water courses.

## Section 6: Accidental release measures

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

**Personal precautions:** Evacuate the area immediately. 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. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

### 6.2. Environmental precautions

**Environmental precautions:** Do not discharge into drains or rivers.

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

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

### 6.4. Reference to other sections

**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

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Do not eat, drink or smoke during use. Wash hands after use.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Keep away from food, drink and animal feeding stuffs. Prevent access of children, birds, pets and farm animals. Avoid contact with water or humidity. Protect from frost. Protect from heat.

### 7.3. Specific end use(s)

**Specific end use(s):** Rodenticide bait for rodent control.

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

**Hazardous ingredients:**

#### PROPANE-1,2-DIOL

**Workplace exposure limits:**

**Respirable dust**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	150 ppm	-

#### SUCROSE

UK	10 mg/m <sup>3</sup>	20 mg/m <sup>3</sup>	-	-
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#### STARCH

UK	-	-	4 mg/m <sup>3</sup>	-
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### DNEL/PNEC Values

**Hazardous ingredients:**

#### PROPANE-1,2-DIOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	168 mg/m <sup>3</sup>	Workers	Systemic
DNEL	Inhalation (repeated dose)	50 mg/m <sup>3</sup>	General Population	Systemic
DNEL	Inhalation (repeated dose)	10 mg/m <sup>3</sup>	Workers	Local
DNEL	Inhalation (repeated dose)	10 mg/m <sup>3</sup>	General Population	Local
PNEC	Fresh water	260 mg/l	-	-
PNEC	Fresh water sediments	572 mg/kg	-	-

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PNEC	Marine water	26 mg/l	-	-
PNEC	Marine sediments	57.2 mg/kg	-	-
PNEC	Microorganisms in sewage treatment	20 g/l	-	-
PNEC	Soil (agricultural)	50 mg/kg	-	-

## 8.2. Exposure controls

**Engineering measures:** Ensure there is sufficient ventilation of the area. Wear suitable respiratory protective equipment (disposable filtering facepiece respirator to at least FFP-PF 10 or equivalent) when decanting the product.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency. Particle filter class P1 (EN143).

**Hand protection:** Impermeable protective gloves conforming to (EN 374, category III).

**Eye protection:** Safety glasses with side-shields. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** Avoid release to the environment

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**State:** Solid

**Colour:** Red

**Odour:** Characteristic odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Insoluble

**Viscosity:** No data available.

**Boiling point/range°C:** Not applicable.

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** Not applicable.

**upper:** Not applicable.

**Flash point°C:** Not applicable.

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** Not applicable.

**Vapour pressure:** Not applicable.

**Relative density:** 1.261

**pH:** 6.59

**VOC g/l:** No data available.

### 9.2. Other information

**Other information:** No data available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity:** Stable under recommended transport or storage conditions.

### 10.2. Chemical stability

**Chemical stability:** Stable at room temperature and if used as recommended.

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## 10.3. Possibility of hazardous reactions

**Hazardous reactions:** No dangerous reactions known.

## 10.4. Conditions to avoid

**Conditions to avoid:** Under standard handling and storing conditions, the product does not show any dangerous reaction.

## 10.5. Incompatible materials

**Materials to avoid:** Given the lack of information about possible incompatibilities with other substances, it is recommended not to use it in combination with other products.

## 10.6. Hazardous decomposition products

**Haz. decomp. products:** Does not decompose when used and stored as recommended.

## Section 11: Toxicological information

### 11.1. Information on toxicological effects

**Hazardous ingredients:**

#### PROPANE-1,2-DIOL

DERMAL	RBT	LD50	2000	mg/kg
ORAL	RAT	LD50	22000	mg/kg

#### SUCROSE

ORAL	RAT	LD50	29700	mg/kg
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#### 3-[3-(4'-BROMOBIPHENYL-4-YL)-3-HYDROXY-1-PHENYLPROPYL]-4-HYDROXY-2H-CHROMEN-2-ONE

DERMAL	RBT	LD50	1.71	mg/kg
DUST/MIST	RAT	4H LC50	0.00043	mg/l
ORAL	RAT	LD50	1.125	mg/kg

#### 3-(3-BIPHENYL-4-YL-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCOUMARIN

ORL	MUS	LD50	800	µg/kg
ORL	RAT	LD50	680	µg/kg
SKN	RAT	LD50	>50	mg/kg

#### 2,6-DI-TERT-BUTYL-P-CRESOL

DERMAL	RAT	LD50	>2000	mg/kg
DUST/MIST	MUS	RD50	59.7	ppmV
ORAL	RAT	LD50	>2930	mg/kg

[cont...]

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## Relevant hazards for product:

Hazard	Route	Basis
Reproductive toxicity	--	Hazardous: calculated
STOT-repeated exposure	-	Hazardous: calculated

## 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.

**Other information:** This product contains an anticoagulant compound. If large quantities are ingested, nosebleed and bleeding gums may occur. In severe cases there may be bruising, haematomas of the joints and blood present in faeces and urine.

## Section 12: Ecological information

### 12.1. Toxicity

#### Hazardous ingredients:

##### PROPANE-1,2-DIOL

Daphnia magna	48H EC50	> 4000	mg/l
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	40613	mg/l
Scenedesmus Subspicatus	96H EC50	19000	mg/l

##### 3-[3-(4'-BROMOBIPHENYL-4-YL)-3-HYDROXY-1-PHENYLPROPYL]-4-HYDROXY-2H-CHROMEN-2-ONE

BLUE GILL SUNFISH	96H LC50	3.0	mg/l
RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	1.4	mg/l

##### 3-(3-BIPHENYL-4-YL-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)-4-HYDROXYCOUMARIN

RAINBOW TROUT ( <i>Oncorhynchus mykiss</i> )	96H LC50	0.1	mg/l
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##### 2,6-DI-TERT-BUTYL-P-CRESOL

Daphnia magna	48H EC50	0.61	mg/l
Scenedesmus Subspicatus	72H IC50	0.4	mg/l

### 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

[cont...]

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## 12.4. Mobility in soil

**Mobility:** Slightly mobile to non-mobile.

## 12.5. Results of PBT and vPvB assessment

### Persistence (P-):

days

**Half-life in fresh or estuarine water:** >60

**Persistence result:** vP-

### Bioaccumulation (B-):

**Bioconcentration factor (BCF):** 2000-5000

**Bioaccumulation result:** B-

### Toxicity (T-):

mg/l

**NOEC for marine or freshwater organisms:** <0.1

**Toxicity result:** T

**PBT identification:** This substance is identified as a PBT substance.

## 12.6. Other adverse effects

**Other adverse effects:** Toxic to mammals, including domesticated animals and birds if ingested. Exposure of non-target animals should be prevented.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 20 01 19

**Disposal of packaging:** Disposal of contaminated packaging as unused product unless fully cleaned.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Specific regulations:** Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as regards Annex XVII. Authorisation No. UK-2012-0661.

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

[cont...]

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## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

\* indicates text in the SDS which has changed since the last revision.

**Phrases used in s.2 and s.3:** H300: Fatal if swallowed.

H300+310+330: Fatal if swallowed, in contact with skin or if inhaled.

H360D: May damage the unborn child.

H372: Causes damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.