

SAFETY DATA SHEET

ROMAX MUSKIL BLOCK FLUO-NP

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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 BLOCK FLUO-NP

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

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.
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:

FLOURS DUST

EINECS	CAS	PBT / WEL	CLP Classification	Percent
-	-	Substance with a Community workplace exposure limit.	-	10-30%

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:

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

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-334-9	57-50-1	-	-	0.1-1%

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

204-881-4	128-37-0	-	Aquatic Acute 1: H400; Aquatic Chronic 1: H410	<0.1%
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STARCH - REACH registered number(s): ANNEX IV EXEMPT

232-679-6	9005-25-8	-	-	<0.1%
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SODIUM HYDROXIDE - REACH registered number(s): 01-2119457892-27-XXXX

215-185-5	1310-73-2	-	Skin Corr. 1A: H314	<0.1%
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FORMALDEHYDE

200-001-8	50-00-0	-	Carc. 1B: H350; Muta. 2: H341; Acute Tox. 3: H301; Acute Tox. 3: H311; Acute Tox. 3: H331; Skin Corr. 1B: H314; Skin Sens. 1: H317	<0.1%
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1,2-BENZISOTHIAZOLIN-3-ONE

220-120-9	2634-33-5	-	Acute Tox. 4: H302; Skin Irrit. 2: H315; Eye Dam. 1: H318; Skin Sens. 1: H317; Aquatic Acute 1: H400	<0.1%
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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 breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

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). Treatment with phytomenadione (orally or intravenously) may be required for several weeks. 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.

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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.

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 when handling the product. 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:

FLOURS DUST

Workplace exposure limits:

Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	-	30mg/m ³	10 mg/m ³

DNEL/PNEC Values

DNEL / PNEC No data available.

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).

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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: Pale Red

Odour: Characteristic odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Insoluble

Viscosity: Not applicable.

Boiling point/range°C: Not applicable.

Melting point/range°C: No data available.

Flammability limits %: lower: No data available.

upper: No data available.

Flash point°C: Not applicable.

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

Autoflammability°C: Not applicable.

Vapour pressure: Not applicable.

Relative density: 1.106

pH: 6.54

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.

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.

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Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

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

SUCROSE

ORAL	RAT	LD50	29700	mg/kg
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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

SODIUM HYDROXIDE

IPR	MUS	LD50	40	mg/kg
ORL	RBT	LDLO	500	mg/kg

FORMALDEHYDE...100%

ORL	MUS	LD50	42	mg/kg
ORL	RAT	LD50	100	mg/kg
SCU	RAT	LD50	420	mg/kg

1,2-BENZISOTHIAZOLIN-3-ONE

ORL	MUS	LD50	1150	mg/kg
ORL	RAT	LD50	1020	mg/kg

Relevant hazards for product:

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

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Symptoms / routes of exposure

Skin contact: There may be redness or whiteness of the skin in the area of exposure. Irritation or pain may occur at the site of contact. Absorption through the skin may be fatal.

Eye contact: There may be severe pain. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. There may be vomiting. Convulsions may occur. There may be loss of consciousness.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Absorption through the lungs can occur causing symptoms similar to those of ingestion. Convulsions may occur. There may be loss of consciousness.

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:

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 (Oncorhynchus mykiss)	96H LC50	1.4	mg/l

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

RAINBOW TROUT (Oncorhynchus mykiss)	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

SODIUM HYDROXIDE

ALGAE	96H LC50	33-189	mg/l
Daphnia magna	48H EC50	40-240	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: Slightly mobile to non-mobile.

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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-2013-0757.

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.

Section 16: Other information

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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.

H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H314: Causes severe skin burns and eye damage.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H350: May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

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.