

SAFETY DATA SHEET

KNOCK OUT RAT & MOUSE KILLER WHOLE WHEAT

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Compilation date: 19/04/2018

Revision No: 1

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

1.1. Product identifier

Product name: KNOCK OUT RAT & MOUSE KILLER WHOLE WHEAT

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

Use of substance / mixture: Consumer Use. Ready to use rodenticide (biocidal product - PT14).

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: STOT RE 2: H373

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

2.2. Label elements

Label elements:

Hazard statements: H373: May cause damage to organs [blood] through prolonged or repeated exposure.

Hazard pictograms: GHS08: Health hazard



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Signal words: Warning

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.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P401: Store away from food, drink and animal feedstuffs.
P405: Store locked up.

2.3. Other hazards

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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4-HYDROXY-3-(3-(4'-BROMO-4-BIPHENYLYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)COUMARIN

259-980-5	56073-10-0	-	Acute Tox. 1: H310; 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

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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. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Seek medical advice immediately and show the product container or label.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

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

Immediate / special treatment: 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. Antidote Vitamin K1 administered by medical/vetinary professionals only. The advice of the National Poisons Information Service (<http://www.npis.org/>) should be contacted for further advice.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: 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: Refer to section 8 of SDS for personal protection details. If outside do not

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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 create dust.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. If spillage enters drains leading to sewage works inform Environmental Agency. If spillage enters rivers or watercourses inform the Environment Agency.

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. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Do not eat, drink or smoke during use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Prevent access of children, birds, pets and farm animals.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): PC8: Biocidal products (e.g. Disinfectants, pest 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	8 hour TWA	15 min. STEL
UK	-	-	150 ppm	-

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SUCROSE

UK	10 mg/m3	20 mg/m3	-	-
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STARCH

UK	-	-	4 mg/m3	-
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DNEL/PNEC Values

Hazardous ingredients:

PROPANE-1,2-DIOL

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	168 mg/m3	Workers	Systemic
DNEL	Inhalation (repeated dose)	50 mg/m3	General Population	Systemic
DNEL	Inhalation (repeated dose)	10 mg/m3	Workers	Local
DNEL	Inhalation (repeated dose)	10 mg/m3	General Population	Local
PNEC	Fresh water	260 mg/l	-	-
PNEC	Fresh water sediments	572 mg/kg	-	-
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	-	-

4-HYDROXY-3-(3-(4'-BROMO-4-BIPHENYLYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)COUMARIN

Type	Exposure	Value	Population	Effect
PNEC	Soil (agricultural)	>0.88 mg/kg	-	-
PNEC	Fresh water sediments	>0.0038 mg/l	-	-
PNEC	Marine sediments	>0.00004 mg/l	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency.
Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Not generally required under normal use conditions.

Skin protection: Protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Solid

Colour: Red

Odour: Characteristic odour

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Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Insoluble

Viscosity: No data available.

Boiling point/range°C: No data available.

Flammability limits %: lower: No data available.

Flash point°C: Not applicable.

Autoflammability°C: Not applicable.

Relative density: 1.188 g/ml

VOC g/l: No data available.

Melting point/range°C: Not applicable.

upper: No data available.

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

Vapour pressure: Not applicable.

pH: 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 under normal conditions.

10.3. Possibility of hazardous reactions

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

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
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ORAL	RAT	LD50	22000	mg/kg
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SUCROSE

ORAL	RAT	LD50	29700	mg/kg
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4-HYDROXY-3-(3-(4'-BROMO-4-BIPHENYLYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)COUMARIN

ORL	MUS	LD50	290	µg/kg
ORL	RAT	LD50	160	µg/kg
SKN	RAT	LD50	200	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

Relevant hazards for product:

Hazard	Route	Basis
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 (Oncorhynchus mykiss)	96H LC50	40613	mg/l
Scenedesmus Subspicatus	96H EC50	19000	mg/l

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4-HYDROXY-3-(3-(4'-BROMO-4-BIPHENYLYL)-1,2,3,4-TETRAHYDRO-1-NAPHTHYL)COUMARIN

Daphnia magna	48H EC50	0.25	mg/l
GREEN ALGA (Selenastrum capricornutum)	72H ErC50	0.04	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	6H EC10	0.0038	mg/l

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: Not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Insoluble in water.

12.5. Results of PBT and vPvB assessment

Persistence (P-):

days

Half-life in marine water: >60

Half-life in fresh or estuarine water: 40-60

Half-life in soil: >180

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 aquatic organisms. Toxic to soil organisms. Toxic to mammals, including domesticated animals and birds if ingested. Exposure of non-target animals should be prevented.

Section 13: Disposal considerations

[cont...]

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13.1. Waste treatment methods

Disposal operations: Must not be disposed together with household waste. Do not allow product to reach sewage system. Remove all baits after treatment and dispose of them in accordance with local requirements.

Recovery operations: For information on disposal contact the Environmental Agency (<http://www.environmental-agency.gov.uk>) or SEPA (<http://sepa.org.uk>).

Disposal of packaging: Dispose of uncleaned packaging in accordance with local requirements.

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 Annex XVII conditions of restriction : 30
Authorisation No. UK-2015-0895.

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

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.

H310: Fatal in contact with skin.

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.