

Bromag Wax Blocks Safety Data Sheet

Labelling according to The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

Control of Substances Hazardous to Health Regulations 2002 (as amended). – The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.



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

1.1 Product identifier

Bromag Wax Blocks UK-2013-0755

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

Relevant identified uses: Rodenticides for control of rats and mice.

Uses advised against: Use only for the purposes specified in this safety data sheet or on the label. The product should be used in accordance with the indications on the product label. Rodenticide should not be used in places occupied by other animals or people.

1.3. Details of the supplier of the safety data sheet

Address: Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ

Tel: +44 (0)1924 268 450

Fax: +44 (0)1924 265 033

Email: technical@killgerm.com

1.4. Emergency telephone number

Medical professionals should use National Poisons Information Service Tel: 0870 600 6266.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours)

Non-medical professionals should seek information by contacting NHS by dialling 111.

SECTION 2: Hazards identification

2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

Repro tox cat 1B: H360D May Damage the unborn child.

STOT RE cat 1: H372 Causes damage to organs through prolonged or repeated exposure

2.2. Label elements



GHS08

Signal Word: **DANGER**

Hazard statements:

H360D: May Damage the unborn child.

H372: Causes damage to organs (blood) through prolonged or repeated exposure.

EUH208: Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Precautionary statements:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink, or smoke when using this product.

P280: Wear protective gloves.

P308 + P313: IF exposed or concerned: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P405: Store locked up.

P501: Dispose of contents/container in accordance with national regulation. To avoid risk to man and to the environment comply with the instructions for use.

Safety data sheet available for professional user on request.

2.3. Other hazards

This product contains Bromadiolone, an indirect anticoagulant. Any signs of poisoning are unlikely to occur until 12-18 hours after ingestion. Thereafter, they will develop progressively and may rapidly appear. See Section 4.2. for detailed information about the important symptoms of exposure. This product is hazardous to mammals including domesticated animals, and birds if ingested. Exposure of non-target animals should be prevented.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous Components in Product

Ingredient Name	Classification according to Regulation (EC) No 1272/2008 (CLP)	Concentration	Specific Conc. Limits
Bromadiolone Technical Material CAS No.: 28772-56-7 EC: 249-205-9 Index: 607-716-00-8	Acute Tox. 1; H300 Acute Tox. 1; H310 Acute Tox. 1; H330 Repr. 1B; H360D STOT RE 1; H372 (blood) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.005% W/W	Repr. 1B; H360D: C ≥ 0,003 %S TOT RE 1; H372: C ≥ 0,005 %S TOT RE 2; H373: 0,0005 % ≤ C < 0,005 %
Denatonium Benzoate CAS No.: 3734-33-6 EC No.: 223-095-2	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	0.001% W/W	
1,2-benzisothiazol-3(2H)-one CAS No: 2634-33-5 EC No: 220-120-9 Index: 613-088-00-6	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 Aquatic Acute 1; H400	0,005-<0,049%w/w	Skin Sens. 1; H317: C ≥ 0,05 %

See section 16 for full text of H phrases and hazard classification of ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

General: Remove affected person from the contaminated area to fresh air or well-ventilated area, providing their basic life functions and protect them from the cold or heat. Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

Eye contact: Immediately flush eyes with plenty of water while keeping eyelids apart (at least 15 minutes). After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. If irritation persists, seek professional medical attention.

Skin contact: Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Ingestion: Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the safety datasheet or label.

Inhalation: Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

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

Inhalation: Breathing dust can irritate the respiratory tract. Coughing, sneezing, nasal discharge, laboured breathing.

Skin contact: Contact with skin may cause irritation (redness, itching).

Eye contact: Contact with eyes can cause irritation (redness, tearing, pain).

Ingestion: Bromadiolone is an anticoagulant which may produce bleeding. Symptoms may be delayed for several days after exposure. In case of poisoning bleeding disorders and increased bleeding tendency may occur. In severe poisoning a strong internal bleeding can cause circulatory collapse and consequent death.

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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

ADVICE FOR DOCTORS: Bromadiolone is an indirect anti-coagulant. Phytomenadione, Vitamin K1, is antidotal.

Determine prothrombin time not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

Unsuitable agents: water jet.

5.2. Special hazards arising from the substance or mixture.

In the event of fire, the following is released: poisonous and irritating gases.

5.3. Advice for firefighters

Protective actions: In case of fire do not breathe fumes/gases. Cool containers at risk with water spray. If possible, remove containers from endangered area.

Special protective equipment for firefighters: Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots, and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information: Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures

Protective equipment

Use personal protective equipment (Section 8). Refer to protective measures listed in Sections 7 and 8.

Emergency procedures

Ensure adequate ventilation. Prevent access to unprotected personnel. Avoid contact with skin and eyes.

6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3. Methods and material for containment and cleaning up.

Sweep up spilled material carefully. Avoid raising dust. Place in marked receptacle ready for disposal. Contact supplier for advice on disposal. See also section 13.

6.4. Reference to other sections

See section 8 for protective clothing.

See section 7 for safe handling.

See section 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Measures to prevent fire: Ensure adequate ventilation.

Measures to prevent aerosol and dust generation: Avoid formation of dust.

Measures to protect the environment: For use only in areas that are inaccessible to infants, children, companion animals and non-target animals.

Refer to instructions on label and regulations for safety and health at work. Use personal protective equipment. Do not eat, drink, or smoke while working. Ensure adequate ventilation. Avoid contact with skin and eyes. Use good personal hygiene practices – wash hands at breaks and when done working with material. After working with the product wash yourself and change clothes.

7.2. Conditions for safe storage, including any incompatibilities.

Store in original, tightly closed container in a dry place. Store at room temperature. Keep container in a well-ventilated place. Keep away from food, drink, and animal feeding stuffs. Keep out of the reach of children. Keep away from animals. Protect from direct sunlight. Keep in a locked place.

7.3. Specific end use(s)

Recommendations

The product is intended for use as a rodenticide (biocidal agent). Before using this product read the instructions for use.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with workplace exposure limits.

8.2. Exposure controls

Where exposure may occur engineering controls should be employed. A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item in use	Spillage
Respirators	Not needed under normal use.	Half mask respirator (EN140), plus P class filter (EN143) to required (nominal) protection factor (minimum).
Gloves	Protective Gloves to EN 374 e.g. Nitrile.	Protective Gloves to EN 374 e.g. Nitrile.
Overall	Basic type e.g. Heavy duty polycotton or coverall type 5/6.	Basic type e.g. Heavy duty polycotton or coverall type 5/6.
Goggles / Face shield	Safety glasses to EN 166	Safety glasses to EN 166

General safety and hygiene measures: Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not eat, drink, or smoke while working. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink, and animal feeding stuffs. Good ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Red wax block
Odour:	Weak
Odour threshold:	No data
pH:	Not applicable.
Melting point/freezing point:	Not applicable.
Initial boiling point/boiling range:	Not applicable.
Flash point:	Not applicable.
Evaporation rate:	Not applicable.
Flammability:	Not applicable
Upper/lower flammability or explosive limits:	No available data.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	1.17
Solubility(ies):	Water: Insoluble. – No information for other solvents.
Partition coefficient n-octanol/water (log Kow):	No available data.
Auto-ignition temperature:	No available data.
Decomposition temperature:	No available data.
Viscosity:	No available data.
Explosive properties:	None, no ingredients with explosive properties.
Oxidising properties:	None, no ingredients with oxidizing properties.

9.2 Other Information

No further relevant information

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SECTION 10: Stability and reactivity

10.1. Reactivity

Not reactive mixture

10.2. Chemical stability

Stable under recommended conditions of storage and handling.

10.3. Possibility of hazardous reactions

None anticipated.

10.4. Conditions to avoid.

High temperatures, direct sunlight, humidity.

10.5. Incompatible materials

Store away from strong oxidising agents.

10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Classification of the product was conducted by calculation method according to regulation 1272/2008 based on the content of hazardous ingredients:

a) **acute toxicity:** Information has been derived from the properties of the individual ingredients.

Name	Exposure route	Type	Species	Value
For product	oral	LD ₅₀	Rat	>2000 mg/kg
For product	dermal	LD ₅₀	Rat	>2000 mg/kg
Bromadiolone (ISO) (28772-56-7)	dermal	LD ₅₀	Rat	>1.71 mg/kg
Bromadiolone (ISO) (28772-56-7)	oral	LD ₅₀	Rat	> 0,56 mg/kg
denatonium benzoate (3734-33-6)	oral	LD ₅₀	Rat	584 mg/kg
denatonium benzoate (3734-33-6)	dermal	LD ₅₀	Rabbit	> 2000 mg/kg

b) **irritation:** Skin, eyes, respiratory tract – no irritation potential expected. Information derived from the properties of the individual ingredients.

c) **corrosivity:** Based on data available classification criteria are not met.

d) **sensitisation:** Based on data available classification criteria are not met.

e) **repeated dose toxicity:** The product has not been tested. Repeated exposure to small quantities may affect certain organs, Damages the coagulation system.

f) **carcinogenicity:** product does not contain any compounds with carcinogenic hazard.

g) **mutagenicity:** product does not contain any compounds with germ cell mutagenicity hazard.

h) **toxicity for reproduction:** Based on data available the product is classified as potentially causing harm to an unborn child. The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested.

The statement has been derived from the properties of the individual components.

i) **aspiration:** No information.

11.2. Other Data

See section 2.3

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SECTION 12: Ecological information

12.1. Toxicity

The Bromadiolone in this product is classified as very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. However, when used in accordance with instructions, controlled release of this product is not expected to cause environmental contamination. Data derived from the active ingredients.

Substance (Cas No.)	Type	Value	Exposure time	Species	Organism
Bromadiolone (ISO) (28772-56-7)	EbC ₅₀	0.17mg/L	96 h	algae	<i>Scenedesmus subspicatus</i>
	LC ₅₀	2 mg/L	48 h	crustacea	<i>Daphnia magna</i>
	LC ₅₀	2.86 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>
denatonium benzoate (3734-33-6)	LC ₅₀	> 1000 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>
	LC ₅₀	> 1000 mg/L	96 h	fish	<i>Salmo gairdneri</i>
	EC ₅₀	13 mg/L	48 h	crustacea	<i>Daphnia magna</i>

12.2. Persistence and degradability

No information

12.3. Bio accumulative potential

Partition coefficient bromadiolone (ISO) (28772-56-7) - Octanol-water (log Pow) > 3
denatonium benzoate (3734-33-6) - Octanol-water (log Pow) 1,78

12.4. Mobility in soil

Mobility potential is very low and will depend principally on the soil type. Bromadiolone and any potential degradation products even if released indirectly to soil in small quantities are not likely to move through the soil profile and are unlikely to reach groundwater in significant quantities.

Denatonium benzoate (3734-33-6) – Soil – Henry constant (H) – 1,63E-21 atm m³/mol

12.5. Results of PBT and vPvB assessment

Does not meet requirement for assessment.

12.6. Other adverse effects

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of uneaten product, empty containers and contaminated packaging must be made in accordance with the local law. For information on disposal in the UK contact the environment agency (www.environment-agency.gov.uk) or SEPA (www.SEPA.org.uk). Dispose of unused product in the original container as hazardous waste.

Empty containers and contaminated PPE should be considered hazardous and disposed of appropriately.

Suggested European waste code 20 01 19.

SECTION 14: Transport information

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es).

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

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14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.

Not applicable.

SECTION 15: Regulatory information

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

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- Restricted to trained professional users in the UK and professional users in Ireland.
- Refer to other relevant measures such as the Health and Safety at Work etc Act 1974 and the COSHH regulations and guidance.
- The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by legislation.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Use only in accordance with label instructions. - Operatives using this product should be trained in its use.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

Ingredient classification data:

Acute Toxicity Category 1 (oral)

H300 Fatal if swallowed.

Acute Toxicity Category 4 (oral)

H302 Harmful if swallowed.

Acute Toxicity Category 1 (Dermal)

H310 Fatal in contact with skin.

Skin Irritant Category 2

H315 Causes skin irritation.

Skin sensitising category 1

H317 May cause an allergic skin reaction.

Eye Damage category 1

H318 Causes serious eye damage.

Eye Irritation category 2

H319 Causes serious eye irritation.

Acute Toxicity Category 1 (Inhalation)

H330 Fatal if inhaled.

Single target organ toxicity – Single exposure Category 3

H335 May cause respiratory irritation.

Reproductive toxicity category 1

H360D May damage the unborn child.

Single target organ toxicity – Repeat exposure category 1

H372 Causes damage to organs through prolonged or repeated exposure.

Aquatic toxicity Acute category 1

H400 Very toxic to aquatic life.

Aquatic toxicity Chronic category 1

H410 Very toxic to aquatic life with long lasting effects.

Issue number (date)	Section amended
Issue (Mar 2018)	First creation.
Issue (Aug 2019)	Update to style and layout – some updates to minor wording.
Issue (Feb 2021)	New format, with update to section 3.
Issue (Jul 2021)	Update to section 15 to reflect New UK regulation

This safety data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.