

1 Identification of the preparation and the supplying Company

1.1 Brodiag Blocks (UK-2015-0858-0008)

1.2 Professional use only. Rodenticide for control of rats and mice indoors and outdoors around buildings and in sewers.

Uses advised against: To use only for the purposes stated in this Safety Data Sheet or on the product label. Any other use is prohibited. Do not use rodenticide in unprotected places where other animals or people move or stay.

1.3 Killgerm Chemicals Ltd, Wakefield Road, Ossett, West Yorkshire, WF5 9AJ.

Tel: +44 (0)1924 268450 Fax: (0)1924 265033 Email: technical@Killgerm.com

1.4 Emergency telephones. Medical professionals should use National Poisons Information Service Tel: 0344 892 0111. Killgerm Chemicals Ltd, 01924 268452 (Office hours)

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

2 Hazards identification

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

STOT RE Category 2 H373

2.2. Label elements



Signal word: **Warning**

H373 May cause damage to organs (blood) through prolonged or repeated exposure.

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

P260 Do not breathe dust.

P314 Get medical advice if you feel unwell.

P501 Dispose of container and unused bait as hazardous waste in accordance with national regulations

2.3. Other hazards

No information.

3 Composition and information on ingredients

3.2. Mixtures - Hazardous Components in Product

Ingredient Name	Classification	Concentration	H Phrases
Brodifacoum CAS - 56073-10-0	Acute Tox. 1 (Oral) Acute Tox. 1 (Inhalation) Acute Tox. 1 (Dermal) Repr. 1A STOT RE 1 Aquatic Acute 1 [M=10] Aquatic Chronic 1 [M=10]	0,0029% w/w	H300 H310 H330 H360D H372 H400 H410
Denatonium benzoate CAS - 3734-33-6	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1 Acute Tox. 4 STOT SE 3 Aquatic Chronic 3	0,001% w/w	H302 H315 H318 H332 H335 H412

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

4 First Aid measures

4.1. Description of first aid measures

Move the person away from the contaminated area and remove any contaminated or spattered clothing. Keep the patient at rest and maintain body temperature. Check breathing. If necessary, give artificial respiration. If person is unconscious, turn them onto their side, with the head lower than the rest of the body and the knees bent. If necessary, take the person to a hospital and show the label or packaging when possible.

DO NOT LEAVE POISONED PERSON ALONE UNDER ANY CIRCUMSTANCE.

Ingestion (swallowing): Wash out mouth with water. Do not induce vomiting. Seek medical advice if in doubt or feeling unwell.

Inhalation: Remove from exposure to a well-ventilated area. Obtain medical advice if symptoms develop.

Skin contact: Remove and launder any contaminated clothing. Wash skin with plenty of soap and water. If feeling unwell seek medical attention.

Eye contact: In case of contact with eyes, remove contact lenses if present and rinse the eye slowly and gently with water for 15-20minutes. If irritation persist, seek medical advice immediately.

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

Inhalation: breathing dust can irritate the respiratory tract causing coughing, sneezing, nasal discharge and laboured breathing.

Skin contact: powder can cause localised skin irritation in folds of the skin or under tight clothing. Contact with skin may cause irritation (redness and itching).

Eye contact: dust irritates the eyes (by mechanical means). Contact with eyes can cause irritation (redness, tears and pain).

Ingestion: the product contains Brodifacoum 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 ...See 4.2

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

ADVICE FOR DOCTORS: Brodifacoum is an indirect anti-coagulant. Phytomenadione and Vitamin K1 are 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.

5 Fire-fighting measures

5.1. Extinguishing media

Use Carbon dioxide, dry chemical powder, water spray and alcohol resistant foam. Do not use full water jet spray.

5.2. Special hazards arising from the substance or mixture

In the event of fire, harmful vapours and gases can be generated.

5.3. Advice for fire-fighters

Wear an air tight chemical protection suit (EN469) and a self-contained breathing apparatus (EN 137) in the immediate vicinity of the product or stream.

Keep containers cool by spraying with water.

Check that the water used to extinguish the fire did not reach any water channel or drains. If this occurs, notify authorities.

Fires in confined spaces must be extinguished by qualified personnel with correct breathing equipment.

6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personnel dealing with accidental spills and release of the mixture should wear personal protective equipment described in section 8 under "spillage".

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Take up mechanically and collect in a suitable container and dispose according to current regulations

6.4. Reference to other sections:

See also sections 8 and 13.

7 Handling and storage

7.1. Precautions for safe handling

Read and follow the instructions printed on the label on how to use the product safely.

Ensure adequate ventilation and avoid formation of dust.

Do not eat, drink or smoke whilst using the product.

Avoid contact with skin and eyes, use personal protective equipment.

Follow good personal hygiene practices wash by washing your hands at breaks. When done working with the product, wash yourself and change clothes.

7.2. Conditions for safe storage, including any incompatibilities

Keep product in a well-ventilated dry place in its original tightly closed container at room temperature.

Keep the container upright to prevent any leakages and close after each use.

Keep away from food, drink and animal feed.

Keep out of the reach of children and animals.

Keep the container away from heat, open fire and direct sunlight, in a secure place and properly labelled containers.

7.3. Specific end use(s)

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

8 Exposure controls and personal protection

8.1. Control parameters

BS EN 14042:2003: Workplace atmospheres monitoring procedures should be used to monitor exposure to the product.

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 and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. In case of dusting use respiratory protection. Use a half-mask (EN 140 or EN149) with a particle filter P (EN 143).	Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. In case of dusting use respiratory protection. Use a half-mask (EN 140 or EN 149) with a particle filter P (EN 143).
Gloves	Protective PVC and Butyl rubber gloves (EN 374)	Protective PVC and Butyl rubber gloves (EN 374)
Overall	Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).	Cotton protective clothing (EN ISO 13688) and shoes that cover the entire foot (EN ISO 20345).
Goggles/ Face shield	Safety glasses with side protection (EN 166).	Safety glasses with side protection (EN 166).

9 Physical and chemical properties

9.1. General information

Appearance: Blue solid blocks

Odour: mild characteristic

pH: No information

Density: No information.

Flammability: No information.

Boiling point/boiling range: No information.

Vapour density: No information.

Vapour pressure: No information.

Melting point/freezing point: 45 – 65 °C

Solubility in water: Insoluble

Solubility in other solvents:

Explosive properties: No information.

Combustibility: No information.

Oxidising properties: No oxidising properties.

Evaporation rate: No information.

Partition coefficient: No information.

Decomposition temp: No information.

Auto-ignition temp: Product is not explosive. Product is not self-igniting.

10 Stability and reactivity

10.1. Reactivity: No information.

10.2. Chemical stability: Product is stable under normal conditions according to handling and storage.

10.3. Possibility of hazardous reactions: None.

10.4. Conditions to avoid: Avoid high temperatures.

10.5. Incompatible materials: Strong oxidizing agents.

10.6. Hazardous decomposition products: Under normal use conditions no hazardous decomposition products expected. In case of fire/explosion dangerous vapours are released.

11 Toxicological information

11.1 Information on toxicological effects

(a) acute toxicity; The active ingredient, Brodifacoum (CAS) (560743-10-0) for oral route of exposure has a LD₅₀ (rat) <0.27mg/kg and a LD₅₀ (rat) 7.48 mg/kg for dermal route of exposure.

(b) irritation; no information.

(c) corrosivity; no information.

(d) sensitisation; no information.

(e) repeated dose toxicity; May cause damage to organs (blood) through prolonged or repeated exposure.

(f) carcinogenicity; no information.

(g) mutagenicity; no information.

(h) toxicity for reproduction; no information.

11.2 Other data: none.

12 Ecological information

12.1. Toxicity: No ecotoxicological data available for the **product**. Avoid release to the environment.

For component – Brodifacoum (CAS 56073-10-0)
LC ₅₀ Fish (96hr rainbow trout) 0.042mg/L
EC ₅₀ Crustacea (48hr Daphnia magna) 0.25mg/L
EC ₅₀ Algae (72hr algae) 0.04mg/L

12.2. Persistence and degradability: no information.

12.3. Bio accumulative potential: The active ingredient properties indicate a potential to bioaccumulate. Brodifacoum (CAS) (560743-10-0) has (log Pow) 4.9 in Octanol-Water at 20 °C and pH 7.

12.4. Mobility in soil: no information.

12.5. Results of PBT and vPvB assessment: no evaluation.

12.6. Other adverse effects:

No information.

13 Disposal considerations

13.1. Waste treatment methods

- Clean empty buckets can be disposed of as non-hazardous, crumbs and wipes must be disposed of as hazardous waste.
- Coveralls, gloves, other PPE, contaminated PPE. EWC code 15 02 03. Waste classification non-hazardous. None of hazardous properties apply.

- Spent bait. EWC code 20 01 19. Biocide solid waste. Waste classification hazardous.
- Contact supplier, local authority or Environment Agency for advice about disposal of waste items. Remove all baits after treatment and dispose of them in accordance with local requirements. Dead rodents and bait found outside bait stations should be disposed of using protective gloves. Professionals: For information on disposal in the UK contact the Environment Agency (<http://www.environment-agency.gov.uk>) or SEPA (<http://www.sepa.org.uk>).

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:** No
- 14.6. Special precautions for user:** not applicable.
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** not applicable.

15 Regulatory information

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

- Classification & Labelling according to Regulation (EC) No 1272/2008.
- Control of Substances Hazardous to Health Regulations 2002 (as amended).
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
- Refer to other relevant measures such as the Health and Safety at Work Act 1974
- 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 on this product by the supplier.

16 Other information

List of relevant Hazard statements

H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.

Brodiag Blocks Safety Data Sheet

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

This 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.
