

1 Identification of the preparation and the supplying Company

1.1 Brodiag whole wheat (UK-2017-1051-0003;)

1.2 A ready to use cereal based rodenticide

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 UK: Emergency telephones. Medical professionals should use National Poisons Information Service: 0870 600 6266. Killgerm Chemicals Ltd, 01924 268452 (Office hours)

Non-medical professionals should seek information by contacting NHS Tel :111

2 Hazards identification**2.1. Classification of the substance or mixture according to Regulation (EC) 1272/2008.**

STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure

2.2. Label elements in accordance with Regulation [EC] 1272/2008

Signal word: **WARNING**

Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements:

P102 keep out of reach of children

P103 Read the label before use.

P260 Do not breathe dust.

P280 Wear protective gloves and clothing.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of the contents/container in accordance with local regulation.

2.3. Other hazards

None expected under normal conditions of use. This product contains Brodifacoum, 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.

Clinical signs result from an increased bleeding tendency and include: an increase in prothrombin time, bruising easily with occasional gum bleeding, blood in the stool or urine, excessive bleeding from minor cuts and abrasions, pale mouth and cold gums, anorexia and general weakness. More severe cases of poisoning include haemorrhage (usually internal) and shock.

This product is hazardous to mammals including domesticated animals, and birds if ingested.

Exposure of non-target animals should be prevented.

3 Composition and information on ingredients

3.2. Mixtures

Hazardous Components in Product

Ingredient Name	Classification	Concentration	H Phrases
Brodifacoum CAS No:56073-10-0 EC-No:259-980-5	Repr. 1A Acute Tox. 1 STOT RE 1 Aquatic Acute 1 Aquatic Chronic 1	0.0029%w/w	H372 H300 H310 H400 H410
Denatonium Benzoate CAS No:3734-33-6 EC No:223-095-2	Acute Toxic (oral) cat4 Acute Toxic (Inhalation) Cat 4 Skin Irritant Cat2 Eye Damage Cat2 Aquatic Chronic Cat3	0.001 w/w	H302 H332 H315 H319 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

In case of:

Dermal exposure, wash skin with water and then with water and soap.

Eye exposure, rinse eyes with eye rinse liquid or water, keep eye lids open at least 10 minutes.

Oral exposure, rinse mouth carefully with water. Never give anything by mouth to an unconscious person. Do not provoke vomiting. If swallowed, seek medical advice immediately and show the product's container or label.

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

This product contains an anticoagulant substance. If ingested, symptom, 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/veterinary personnel only.

In case of:

Dermal exposure, wash skin with water and then with water and soap.

Eye exposure, rinse eyes with eye rinse liquid or water, keep eye lids open at least 10 minutes.

Oral exposure, rinse mouth carefully with water. Never give anything by mouth to an unconscious person. Do not provoke vomiting. If swallowed, seek medical advice immediately and show the product's container or label.

UK medical professionals should contact the National Poisons Information service (www.npis.org) for further advice.

4.3. Indication of any immediate medical attention and special treatment needed ...See 4.2

5 Fire-fighting measures**5.1. Extinguishing media**

Use water spray, foam, dry chemical or carbon dioxide. Cool the smouldering material with water spray to minimise the possibility of re-ignition. Keep containers and surroundings cool with water spray.

5.2. Special hazards arising from the substance or mixture:

This product is non-flammable, but combustible. May produce toxic fumes of carbon monoxide if involved in a fire.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus

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:

In case of accidental spills keep away from drains, surface and ground water.

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:

Refer to section 8 and 13 for additional information.

7 Handling and storage**7.1. Precautions for safe handling**

The product must be used in accordance with the product label. FOR USE ONLY BY PROFESSIONAL OPERATORS. AVOID ALL CONTACT BY MOUTH. PREVENT ACCESS TO BAIT by children, birds and non-target animals particularly dogs, cats, pigs and poultry. Search for and remove rodent bodies at frequent intervals during treatment. Collect and dispose of the remains of bait and any remaining rodent bodies after treatment. You must ensure that you comply with legislation regarding the correct disposal of waste. HAZARDOUS TO WILDLIFE. DO NOT PLACE BAIT where food, feed or water could become contaminated. IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

WASH HANDS AND EXPOSED SKIN before meals and after use.

EMPTY CONTAINER COMPLETELY and dispose of safely.

When working in rodent infested areas it is recommended that synthetic rubber/PVC gloves be worn to protect against rodent borne disease. Always attach labels to any containers used to carry bait decanted from the main container. Do not remove inner liner from outer bag.

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well ventilated place. Keep the container closed and away from direct sunlight.

Store in places prevented from the access of children, birds, pets and farm animals.

Shelf life: Two years.

7.3. Specific end use(s)

For use as a rodenticide

8 Exposure controls and personal protection**8.1. Control parameters**

No specific national limit values have been established

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		Half mask respirator to EN140 plus P class filter to EN 143 to required (nominal) protection factor (minimum).
Gloves	Unlined/Flock lined, synthetic rubber/PVC to EN 374. (300mm in length) e.g. Nitrile.	Unlined/Flock lined, synthetic rubber/PVC to EN 374. (300mm in length) e.g. Nitrile
Overall	Basic type e.g. Heavy duty polycotton or coverall type 5/6.	Coverall type 5/6.
Goggles/ Face shield		Goggles to EN 166 3459B.

9 Physical and chemical properties

9.1. General information

Appearance: A blue/green whole wheat grain bait

Odour: characteristic wheat odour.

pH: Not applicable

Melting point/freezing point: Not applicable

Initial boiling point and boiling range: Not applicable

Flash point: Not applicable

Evaporation rate: Not applicable

Flammability (solid, gas): not flammable, but will burn

Upper/lower flammability or explosive limits; no available data

Vapour pressure: Not applicable

Vapour density: Not applicable

Relative density: 0.7

Solubility(ies): insoluble in water, solubility not determined in other solvents

Partition coefficient: n-octanol/water; no available data

Auto-ignition temperature: no available data

Decomposition temperature: no available data

Viscosity: Not applicable

Explosive properties: Not applicable

Oxidising properties: None

9.2. Other information:

No available data.

10 Stability and reactivity

10.1. Reactivity: Not reactive mixture

10.2. Chemical stability: Mixture is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3. Possibility of hazardous reactions: None anticipated

10.4. Conditions to avoid: Avoid extremes of temperature

10.5. Incompatible materials: Store away from strong oxidising agents

10.6. Hazardous decomposition products: Carbon monoxide and oxides of nitrogen, toxic and irritants released if mixture is involved in a fire.

11 Toxicological information**11.1 Information on toxicological effects**

(a) Acute toxicity: Information has been derived from the properties of the individual ingredients. Oral LD₅₀ (rat) >2000mg/kg

Inhalation- Not an anticipated route of exposure.

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

(c) Sensitisation: contains no known skin or respiratory sensitizers.

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

(e) Mutagenicity/Carcinogenicity: Product does not contain any ingredients known to have such effects.

(f) Reproductive toxicity: Classified as Reprotoxic category 1A

11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity: Brodifacoum: LC₅₀ Bluegill sunfish 0.165mg/l (96hr), LC₅₀ Rainbow trout 0.04mg/l (96hr), LC₅₀ Daphnia magna >0.04mg a.i. (48hr), ErC₅₀ Selenastum capricornutum >0.04mg/l (72hr)

12.2. Persistence and degradability: No information is available about persistence and degradability of the product.

12.3. Bio accumulative potential: The active ingredient properties indicate a potential to bio-accumulate.

12.4. Mobility in soil: No information is available about the mobility in soil.

12.5. Results of PBT and vPvB assessment: The product contains a potential PBT substance. The product contains a potential vPvB substance.

12.6. Other adverse effects: None known

13 Disposal considerations**13.1. Waste treatment methods**

Empty outer Polypropylene 20k bag, uncontaminated. Non-hazardous waste. Consider recycling route.
EWC code 15 01 02

Empty outer Polypropylene 20k bag, contaminated but shaken empty. Hazardous waste EWC code 20 01 19.
Empty inner liner (20k bag), contaminated but shaken empty. Hazardous waste EWC code 20 01 19.

Empty Polypropylene bag plus inner liner, contaminated but shaken empty. Hazardous waste EWC code 20 01 19.

Contaminated personal protective equipment. Hazardous waste **EWC code 15 02 02.**

Spent bait. Hazardous waste EWC code 20 01 19.

- **Professionals:** At the end of the treatment, dispose of uneaten bait and the packaging in accordance with local requirements. 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:** Not applicable
- 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:

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).

- Restricted to trained professional users in the UK
- 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: Advice on product handling can be found in sections 7 and 8.

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:

Acute toxicity (oral) Cat. 1

Acute toxicity (dermal) Cat. 1

STOT RE Cat 1

Aquatic Acute Toxicity Cat.1

Aquatic chronic toxicity Cat.1

H332: Harmful if inhaled

H412: Harmful to aquatic life with long lasting effects

H372: Causes damage to organs through prolonged or repeated exposure

H302: Harmful if swallowed

H315: Causes skin irritation

H300: Fatal if swallowed

H310: Fatal in contact with skin

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H319: Causes serious eye irritation

Abbreviations and acronyms used

COSHH – Control of Substances Hazardous to Health
EC – European Commission
EWC – European Waste Code
LC50 - The concentration causing 50 % lethality
LD50 – The dose causing 50% fatality of a population
PBT - Persistent, Bioaccumulative and Toxic substance
PVC - Polyvinylchloride
STOT RE - Specific target organ toxicity - repeat exposure
vPvB – very Persistent and very Bioaccumulative

Date of amendment	Sections amended	notes

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.