

1 Identification of the preparation and the supplying Company

1.1 Sakarat Brodikill Whole wheat (UK-2017-1051; IE/BPA 70414)

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 111, Tel :111

IRELAND: medical professionals should contact The National Poisons Information Centre ,Beaumont Hospital, Dublin (01-8092166)

2 Hazards identification

2.1. Classification of the substance or mixture

According to Regulation (EC) 1272/2008



Repr Cat 1A
STOT RE 2

2.2. Label elements

DANGER

H360D May damage fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

P102 keep out of reach of children

P103 Read the label before use.

P280 Wear protective gloves and clothing

P301+310 If SWALLOWED: Immediately call a POISON CENTER or doctor/physician

. To avoid risk to man and the environment comply with the instructions for use. Safety data sheet available for professional user on request.

2.3. Other hazard

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	0.005%w/w	H300 H310 H372 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 R-phrases, H phrases and hazard classification of ingredients.

4 First Aid measures

4.1. Description of first aid measures

Ingestion (swallowing): Wash out mouth with water. Do not induce vomiting. Obtain medical attention.

Inhalation: Unlikely route of exposure. Remove from exposure to fresh air. Obtain medical advice if symptoms develop.

Skin contact: Wash skin with soap and water.

Eye contact: Wash out eye with plenty of water. Obtain medical advice if necessary

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

Brodifacoum is an 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 (phytomenadione) 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.

Basic vital support measures:

Move the person away from the contaminated zone and Remove contaminated or spattered clothing

In case of eye contact: Rinse cautiously with water for 15 minutes. Do not forget to remove the contact lenses.

In case of skin contact: Wash with plenty of soap and water, without rubbing.

In case of ingestion: Do not induce vomiting. Seek medical advice immediately.

Keep the patient at rest and maintain the body temperature.

Check breathing. If necessary, provide artificial respiration.

If the person is unconscious, turn the patient sideways, with the head lower than the rest of the body and the knees bended.

Seek medical advice and show the label or packaging where possible.

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 (unless used in sewers). Collect and dispose of the remains of bait and any remaining rodent bodies after treatment (unless used in sewers). You must ensure that you comply with legislation regarding the correct disposal of waste. HARMFUL TO WILDLIFE. DO NOT PLACE BAIT where food, feed or water could become contaminated (except when used in sewers). 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 only in original container.

Store in a cool, dry, well-ventilated place.

Keep away from sun radiation and other heat sources.

A shelf life of up to 2 years is supported

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 date

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 date

Auto-ignition temperature: no available date

Decomposition temperature: no available date

Viscosity: Not applicable

Explosive properties: Not applicable

Oxidising properties: None

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/Carcogenicity: 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 pp 20k bag, uncontaminated- classified non-hazardous. EWC code 15 01 02
Consider recycling route.
- Empty outer Polypropylene 20k bag, contaminated but shaken empty. EWC code 20 01 19.
- Empty inner liner (20k bag), contaminated but shaken empty. EWC code 20 01 19.
- Empty pp bag plus inner liner, contaminated but shaken empty. EWC code 20 01 19.
- Coveralls, gloves, other PPE, contaminated. 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 for further information on disposal contact or 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 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: 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) cat1

Acute toxicity (dermal) cat1

STOT RE Cat1

Aquatic Acute toxicity cat1

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

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.
