1 Identification of the preparation and the supplying Company

1.1 Sakarat D Wax bait **(UK-2012-0370)**

1.2 A ready-to-use paste bait containing Difenacoum (0.005%w/w) for use as a rodenticide by professionals for the control of rats and mice indoors and outdoors (around buildings only) for the protection of public health, stored products and materials.

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 0870 600 6266.Killgerm Chemicals Ltd, 01924 268452 (Office hours)

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

2 Hazards identification

2.1. Classification of the substance or mixture

Repr. 1B; H360D May Damage the unborn child.

STOT RE 2; H373 (blood): May cause damage to organs through prolonged or repeated exposure

2.2. Label elements

The following precautionary phrases are appropriate (Regulation (EC) 1272/2008):

Signal word: **DANGER**

P201: Obtain special instructions before use.

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

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 local regulations.

Additional safety Information

To avoid risks to human health and the environment, comply with instructions for use. Use bait containers clearly marked “poison” at all surface baiting points. Remove all remains of bait, dead rodents during and after treatment and dispose of safely. Prevent access to bait by children, domesticated animals and pets, (particularly cats, dogs and pigs). Harmful to wildlife.

2.3. Other hazard

None expected under normal conditions of use. This product contains Difenacoum, 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
Difenacoum Technical Material CAS Number: 56073-07-5	Reproduction toxicity category 1B Acute Tox category 1 (oral) Acute Tox category 1 (Inhalation - mist) Acute Tox category 1 (dermal) STOT RE 1 Aquatic Acute category 1 Aquatic Chronic category 1	0.005%w/w	H360D H300 H330 H310 H372 H400 H410
Bitrex CAS Number: 3734-33-6	Acute Tox category. 4 Skin Irrit category. 2 Eye Dam category. 1 Aquatic Chronic category 3	0.001% w/w	H302 H332 H315 H318 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
Ingestion (swallowing): Wash out mouth with water. Do not induce vomiting. Seek medical advice immediately.
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. Remove and launder any contaminated clothing.
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. Seek medical advice immediately.
4.2. Most important symptoms and effects, both acute and delayed:
Difenacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is an antidote. In the case of suspected poisoning, determine prothrombin time not less than 18 hours after consumption. If elevated, administer vitamin K1, 40mg/day for adults and 20mg/day for children in divided doses. Continue until prothrombin times normalise. Continue determination of prothrombin time for two weeks after withdrawal of the antidote and resume treatment if elevation occurs in that time. N.B. Vitamin K3 is not effective. For comprehensive medical advice on the treatment of poisoning, contact the nearest Poisons Information Centre. The National Poisons Information Centre, Beaumont Hospital, Dublin (01-8092166), retain the label for reference.
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:
Scrape up material. 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 and stored only in accordance with the product label. Refer also to the section 'Exposure Controls/Personal Protection'. Avoid all contact by mouth. Wash hands and exposed skin before meals and after use. Empty container completely and dispose of safely.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children, and away from foodstuffs and animal feedstuffs. Store and transport away from products which may have an odour

7.3. Specific end use(s)
Use as a rodenticide according to label instructions**.**

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: Blue paste bait
Odour: Distinctive odour similar to modelling clay.
Odour Threshold: not applicable
pH: 6.3
Melting point/freezing point: no available data
Initial boiling point and boiling range: no available data
Flash point: no available data
Evaporation rate: not applicable
Flammability: Will burn in fire
Upper/lower flammability or explosive limit: not applicable
Vapour pressure: not applicable
Vapour density: not applicable
Relative density: 1.11
Solubility(ies): Insoluble
Partition coefficient: no available data
Auto-ignition temperature: 371^{o}C
Decomposition temperature: no available data
Viscosity: not applicable
Explosive properties: None
Oxidising properties. no available data

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: Assessment of reproduction toxicity:
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
11.2 Other data: see section 2.3

12 Ecological information

12.1. Toxicity: The Difenacoum 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
Information on: Difenacoum
Toxicity to fish:
LC50 (96 h) 0.064 mg/l, Oncorhynchus mykiss (Directive 92/69/EEC, C.1)

Information on: Difenacoum
Aquatic invertebrates:
EC50 (48 h) 0.52 mg/l, Daphnia magna (Directive 92/69/EEC, C.2)

Information on: Difenacoum
Aquatic plants:
No observed effect concentration (72 h) 0.25 mg/l (growth rate), Pseudokirchneriella subcapitata

12.2. Persistence and degradability:
12.3. Bio-accumulative potential: Information on: Difenacoum
Bioaccumulation potential:
Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.
12.4. Mobility in soil: Information on: Difenacoum
Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5. Results of PBT and vPvB assessment: Does not meet requirement for assessment

12.6. Other adverse effects: None known

13 Disposal considerations

13.1. Waste treatment methods

- 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.
- Empty containers completely (as far as possible). Dispose of contaminated, empty containers as spent bait (see below)
- Contact supplier, local authority or Environment Agency for advice about disposal of waste items.

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:
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).
• Restricted to professional users.
• 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 data:
H360D: May Damage the unborn child
H330: Fatal if inhaled
H310: Fatal in contact with skin
H300: Fatal if swallowed.
H372: May cause damage to organs through prolonged or repeated exposure
H400: Very toxic to aquatic life
H410: Very toxic to aquatic life with long lasting effects.
H302: Harmful if swallowed
H315: Causes skin irritation
H332: Harmful if inhaled
H318: Causes serious eye damage
H412: Harmful to aquatic life with long lasting effects

Date of amendment	Sections amended	notes
14-9-2017	**Section 2 and 3**	**Updated the classification of the substance and the classifications of the hazardous components**
14-9-2017	**Sections 7, 9 and 16**	**Updated the precautions for handling, physical and chemical properties and the ingredient classification data in the other information section.**

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.