

1 Identification of the preparation and the supplying Company

1.1 Sakarat D Wax bait

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. National Poisons Information Service 0870 600 6266 (for professional medical personnel only), NHS 24 service 111 (for non-professionals), National Poisons Information Centre 01-8092166 (Ireland Only)

Killgerm Chemicals Ltd, 01924 268452 (Office hours)

2 Hazards identification**2.1. Classification of the substance or mixture**

Not classified as hazardous according to Regulation (EC) 1272/2008 or to Directive 1999/45/EC

2.2. Label elements

The following safety phrases are appropriate (Directive 1999/45/EC):

Keep locked up and out of reach of children

Keep away from food, drink and animal feedingstuffs

When using do not eat, drink or smoke

Wear suitable gloves

If swallowed, seek medical advice immediately and show a copy of the SDS or label.

Use appropriate containment to avoid environmental contamination.

This material and its container must be disposed of in a safe way

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

Keep out of reach of children

Read label before use

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

Avoid release to the environment

Wear protective gloves

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.

Store locked up in a closed container.

Dispose of contents/container in accordance with national 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	R Phrases	H Phrases
Difenacoum Technical Material	Xn,N	0.005%w/w	R20/21/22 R51/53	H332,H312,H302,H411
Bitrex	Xn. Xi	<2.5%	R20/22 R38 R41 R52/53	H302,H315,H332,H318 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. 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 15-20 minutes. Seek medical advice immediately.

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

Difenacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is antidotal. 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) eg. Nitrile.	Unlined/Flock lined, synthetic rubber/PVC to EN 374. (300mm in length) eg. Nitrile
Overall	Basic type eg. Heavy duty polycotton or coverall type 5/6.	Coverall type 5/6.
Goggles/ Faceshield		Goggles to EN 166 3459B.



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9 Physical and chemical properties

9.1. General information

Appearance: Blue paste bait

Odour: Distinctive odour similar to modelling clay

pH: 6.3

Density: 1.11

Flammability: Will burn in fire

Boiling point/boiling range: Not applicable

Vapour density: Not applicable

Vapour pressure: Not applicable

Melting point/freezing point: Not applicable

Solubility in water: Insoluble

Solubility in other solvents: Not determined

Explosive properties: None

Combustibility: combustible

Oxidising properties: None

Evaporation rate: Not applicable

Partition coefficient: Not applicable

Decomposition temp: Not determined

Auto-ignition temp: 371oC

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: Product does not contain any ingredients known to have effects on fertility or the reproductive system.

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. Bioaccumulative 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:

This preparation has been classified in accordance with The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009: CHIP 4. These implement the Dangerous Preparations Directive- 99/35/EC. This Safety Data Sheet complies with CHIP 4 requirements and the Safety Data Sheets Directive 91/155/EEC (as amended by Directives 93/112/EC and 2001/58/EC).

- 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.
- Hazard symbols: - None assigned.
- Risk phrases: - None assigned.
- Safety phrases: - see section 2

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: .

Xn- Harmful.

Xi- Irritant.

N-Dangerous for the environment.

R20/21/22- Harmful by inhalation, contact with skin and if swallowed.

R38- Irritating to skin.

R41- Risk of serious damage to eyes.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53- Harmful to aquatic organisms, may cause long-term effects in the aquatic environment.

H332: Harmful if inhaled

H312: Harmful in contact with skin

H302: Harmful if swallowed

H411: Toxic to aquatic life with long lasting effects

H315: Causes skin irritation

H318: Causes serious eye damage

H412: Harmful to aquatic life with long lasting effects

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103This 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.