

**PRODUCT AND COMPANY IDENTIFICATION**

<b>Trade Name</b>	Ratak
<b>Product Code</b>	DIFE80338
<b>Intended Use</b>	FOR USE ONLY AS A RODENTICIDE The product must be used only in accordance with the label.
	Health and Safety Executive HSE 6785, HSE 7191
<b>Appearance</b>	A blue cylindrical pellet.
<b>Manufacturer/Supplier</b>	Sorex Limited
<b>Address</b>	St Michael's Industrial Estate, Widnes, Cheshire WA8 8TJ United Kingdom
<b>Phone Number (24h)</b>	+44 (0) 151-420 7151
<b>Fax Number</b>	+44 (0) 151-495 1163

**COMPOSITION/INFORMATION ON INGREDIENTS****Hazardous Components in Preparation**

<b>Component Name</b>	<b>CAS No.</b>	<b>Concentration</b>	<b>Classification</b>
1. Difenacoum Technical Material	56073-07-05	0.005%	T+;R26/27/28, T;R48/23/24/25, N;R50/53
N	Dangerous to the Environment.		
T	Toxic		
T+	Very toxic.		
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.		
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		

**HAZARDS IDENTIFICATION****Main Hazards**

Not classified as hazardous.

Avoid all contact by mouth.

Large quantities would need to be ingested to produce a toxic effect.

Practically non-hazardous by skin contact.

This product contains difenacoum, an indirect anticoagulant. Any signs of poisoning are unlikely to occur until 12-18 hours after exposure. 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. Exposure of non-target animals should be prevented.

**FIRST AID MEASURES**

<b>First Aid - Eyes</b>	Wash out eye with plenty of water. Obtain medical advice if necessary.
<b>First Aid - Skin</b>	Wash skin with soap and water.
<b>First Aid - Ingestion</b>	Do not induce vomiting. Wash out mouth with water. Obtain medical advice if necessary.
<b>First Aid - Inhalation</b>	Remove from exposure. Obtain medical advice if necessary.

## FIRST AID MEASURES (continued)

### *Advice to Physicians*

Difenacoum is an indirect anticoagulant. Vitamin K1 (phytomenadione) is antidotal. Other forms of Vitamin K are not effective.

In the case of suspected poisoning, determine prothrombin time up to 48 hours after exposure. If elevated, administer Vitamin K1, 10-20 mg (0.25mg/kg for children) by slow intravenous injection, and continue until prothrombin time stabilises. Continue treatment with an oral Vitamin K1 dose of 10 mg four times per day until the prothrombin time has remained normal for three days. Further treatment, an oral dose of 10 mg twice daily, may be required for up to several months. Prothrombin time should be checked 24-hours, 3 days and 1 week after the last dose of Vitamin K1 before a decision is made to stop treatment.

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## FIRE-FIGHTING MEASURES

This product is non-flammable, but is combustible.

### *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.

### *Protective Equipment for Fire-Fighting*

Wear self contained breathing apparatus.

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## ACCIDENTAL RELEASE MEASURES

### *Spillages*

Any spillages should be cleared up immediately and disposed of safely. Wash contaminated surfaces with detergent solution.

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## HANDLING AND STORAGE

### *Storage*

Store in original container under cool and dry conditions in a secure, well ventilated place, inaccessible to children and away from food, animal feedstuffs and products which may have an odour.

### *Handling*

The product must be used only in accordance with the label. Avoid contact with eyes, skin and clothing. Refer also to the section 'Exposure Controls/Personal Protection'.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Standards

**1. Difenacoum Technical**                      None assigned.

### **Material**

Exposure controls should be implemented with due regard to the hierarchy of controls (elimination, substitution, local exhaust ventilation, operating procedures and Personal Protective Equipment (PPE)). PPE should only be used as a last resort where exposure cannot be controlled by other means.

### *Hand Protection*

Although gloves are not required for the safe use of the product, they are recommended for protection against rodent-borne diseases.

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**PHYSICAL AND CHEMICAL PROPERTIES**

<i>Physical State</i>	Pellets.
<i>Colour</i>	Blue.
<i>Odour</i>	No significant odour.
<i>Relative Density</i>	ca. 0.69.
<i>Flammability</i>	Not flammable.
<i>Solubility in Water</i>	Insoluble.
<i>Explosive Properties</i>	None.
<i>Oxidising Properties</i>	None.

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**STABILITY AND REACTIVITY**

<i>Stability</i>	Stable under normal conditions of use.
<i>Hazardous Decomposition Products</i>	Hazardous decomposition products are not expected to be formed during normal storage.

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**TOXICOLOGICAL INFORMATION**

<i>Acute Toxicity</i>	Oral LD50 (rat) 36000 mg/kg.
<i>Irritancy - Eyes</i>	Not an eye irritant.
<i>Irritancy - Skin</i>	Not a skin irritant.
<i>Skin Sensitisation</i>	Studies have not revealed any evidence of skin sensitisation effects.

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**ECOLOGICAL INFORMATION**

<i>Ecotoxicity</i>	This product is hazardous to mammals, including domesticated animals, and birds. Exposure of non-target animals should be prevented.
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**DISPOSAL CONSIDERATIONS**

<i>Product Disposal</i>	The best means of disposal of any product is through proper use according to the label. This product must be disposed of as controlled waste.
<i>Container Disposal</i>	This container must be disposed of as controlled waste. Any disposal must comply with Local and National Requirements. Refer also to relevant EU provisions.

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**TRANSPORT INFORMATION**

<i>Non-hazardous</i>	Non-hazardous for transport.
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## REGULATORY INFORMATION

### *Intended Use*

FOR USE ONLY AS A RODENTICIDE

The product must be used only in accordance with the label.

Health and Safety Executive HSE 6785, HSE 7191

### *Precautions Phrases*

Keep out of reach of children.

Avoid all contact by mouth.

When using do not eat, drink or smoke.

Wash hands and exposed skin before meals and after use.

Do not use bait where food, feed or water could become contaminated.

Prevent access to the bait by children, birds and other animals, particularly dogs, cats, pigs and poultry.

Remove all remains of bait and bait containers after treatment and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Search for rodent bodies and dispose of safely. Do not dispose of in refuse sacks or on open rubbish tips.

Keep away from food, drink and animal feeding stuffs.

Keep in original container, tightly closed, in a safe place.

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

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

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## OTHER INFORMATION

For use only as specified on the label.

This product contains a human taste deterrent and warning dyes. The human taste deterrent is included at a concentration that is repulsive to human taste but is not detected by rats or mice.

The information in this data sheet should be considered when undertaking a risk assessment. A data sheet does not constitute a risk assessment.

This data sheet was prepared in accordance with the European Directive 91/155/EC as amended by 93/112/EC and 2001/58/EC.

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