

PRODUCT AND COMPANY IDENTIFICATION

Trade Name	Ratak
Product Code	XAX231
Intended Use	FOR USE ONLY AS A HOME GARDEN RAT AND MOUSE KILLER Approved under The Control of Pesticides Regulations 1986 for the control of rats and mice. Approval Number: HSE 6784
Appearance	A cylindrical pellet, blue in colour, sachet-packed.
Manufacturer/Supplier	Sorex Limited
Address	St. Michael's Industrial Estate Widnes, Cheshire, WA8 8TJ
Phone Number	+44 (0) 151-420 7151
Fax Number	+44 (0) 151-495 1163

COMPOSITION/INFORMATION ON THE COMPONENTS**Hazardous Components in Product for EC**

Component Name	CAS No.	Concentration	R Phrases	Classification
Difenacoum Technical Material	56073-07-5	0.005%	R26/27/28, R48/25	T+, T

R26/27/28 Very toxic by inhalation, in contact with skin and if swallowed.

R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

T - Toxic

T+ - Very toxic

PRODUCT HAZARD IDENTIFICATION**Main Hazards**

Not classified as hazardous.

Large quantities would need to be ingested to produce a toxic effect. Avoid all contact by mouth.

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 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.

FIRST AID MEASURES

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

FIRST AID MEASURES (continued)***Advice to Physicians***

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, 40 mg/day in divided doses, and continue until prothrombin times normalise. Continue determination of prothrombin time for three days after withdrawal of the antidote and resume treatment if elevation occurs in that time. For comprehensive medical advice on the treatment of poisoning, contact the nearest Poisons Information Centre or Sorex Limited.

FIRE FIGHTING MEASURES

<i>General Hazard</i>	This product is non-flammable, but is combustible.
<i>Extinguishing Media</i>	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.
<i>Protective Equipment for Fire-Fighting</i>	Wear self contained breathing apparatus.

ACCIDENTAL RELEASE MEASURES

<i>Spillages</i>	Any spillages should be cleared up immediately and disposed of safely. Wash contaminated surfaces with detergent solution.
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HANDLING AND STORAGE

<i>Handling</i>	This product is subject to the Food and Environment Protection Act, 1985, and The Control of Pesticides Regulations, 1986, made under it. The product must be used and stored only in accordance with the product label. Refer also to the section 'Exposure Controls/Personal Protection'. Avoid contact with eyes, skin and clothing.
<i>Storage</i>	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 and products which may have an odour.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Difenacoum Technical Material None assigned.

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)) as required by The Control of Substances Hazardous to Health (COSHH) Regulations. 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.

PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State</i>	A cylindrical pellet, sachet-packed.
<i>Colour</i>	Blue.
<i>Odour</i>	No significant odour.
<i>Flammability</i>	Not flammable.
<i>Solubility in Water</i>	Insoluble.
<i>Density</i>	ca. 0.69.
<i>Explosive Properties</i>	None.
<i>Oxidising Properties</i>	None.

STABILITY AND REACTIVITY

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

TOXICOLOGICAL INFORMATION

<i>Acute Toxicity</i>	Oral LD50 (rat) 36000mg/kg.
<i>Irritancy - Eyes</i>	Not an eye irritant.
<i>Irritancy - Skin</i>	Not a skin irritant.
<i>Skin Sensitisation</i>	No known reports of skin sensitisation.

ECOLOGICAL INFORMATION

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

The best means of disposal of any product is through proper use according to the label. Incineration, burying or consigning to landfill are the recommended methods of disposal.

Container Disposal

Do not dispose of the pack in domestic refuse. Empty completely, puncture or crush, and dispose of safely.

TRANSPORT INFORMATION

Non-hazardous for transport.

REGULATORY INFORMATION***Intended Use***

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Precautions Phrases

For the Statutory Conditions Relating to Use please refer to the product label.

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AVOID ALL CONTACT BY MOUTH.

WASH HANDS AND EXPOSED SKIN before meals and after work.

PREVENT ACCESS TO BAIT by children, birds and non-target animals (particularly dogs, cats, pigs and poultry).

DO NOT PLACE BAIT where food, feed or water could become contaminated.

SEARCH FOR RODENT BODIES AND DISPOSE OF SAFELY (e.g. burn or bury). Do not dispose of in refuse sacks or on open rubbish tips.

REMOVE ALL REMAINS OF BAIT AND BAIT CONTAINERS AFTER TREATMENT AND DISPOSE OF SAFELY (e.g. burn or bury). Do not dispose of in refuse sacks or on open rubbish tips.

STORE UNUSED SACHETS in a safe place. DO NOT STORE half-used sachets.

EMPTY CONTAINER COMPLETELY and dispose of safely.

IF YOU FEEL UNWELL, seek medical advice (show the label where possible).

OTHER INFORMATION

For use only as specified on the label.

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

This product contains Bitrex and warning dyes.

Bitrex is a human taste deterrent. It is included at a concentration that is repulsive to human taste but is not detected by rats or mice.

(Bitrex is a Trade Mark of MacFarlan Smith, Edinburgh.)

(Ratak is a Trade Mark of Zeneca Limited.)

This data sheet was prepared in accordance with the European Directive 93/112/EC.