 <b>UNICHEM d.o.o.</b> Sinja Gorica 2, 1360 Vrhnika Tel: 01/7558-150 Fax: 01/7558-155	<b>SAFETY DATA SHEET</b>	Revision: 1
	<b>RATIMOR DIFENACOUM FRESH BAIT</b>	Date of issue: <b>16.03.2012</b>
		Printed: 14.08.2012

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 PRODUCT NAME: **Ratimor Difenacoum Fresh Bait**

1.2 USE OF THE SUBSTANCE/PREPARATION:

Biocidal product. Ready-for-use rodenticide (PT 14) for the control of rats and mice.

Authorisation No. : IE/BPA 70210 (Ireland, amateur use)

Authorisation No.: IE/BPA 70209 (Ireland, professional use)

Authorization No.: UK-2011-0150 (United Kingdom, amateur and professional use)

For further details please refer to product label.

1.3 MANUFACTURER: UNICHEM d.o.o., Sinja Gorica 2, Vrhnika, Slovenia, Tel.: +386 (01) 75 58 150 , fax.: +386 (01) 75 58 155

1.4 SUPPLIER: UNICHEM d.o.o., Sinja Gorica 2, Vrhnika, Slovenia, Tel.: +386 (01) 75 58 150 , fax.: +386 (01) 75 58 155

1.5 EMERGENCY TELEPHONE NUMBER: **112** or

nearest **National Poisons Information Service/Centre:**

Phone number for UK, NPIS: 0845 4647 (England and Wales), 08454 24 24 24 (Scotland),

01 809 2166 (Republic of Ireland)

Phone number for Ireland, NPIC: 01 809 2166 (9am to 5pm, Mon-Fri) or

**Producer**, Unichem d.o.o., Slovenia, tel.: +386 1 75 58 150 (from 7<sup>00</sup> till 15<sup>00</sup>)

## 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF PREPARATION ACCORDING TO DIRECTIVE 99/45/EC

According to the directive on preparations, the product is not classified as dangerous.

2.2. LABEL ELEMENTS

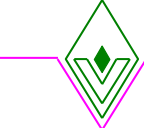
2.2.1. Symbol letter(s):

According to the directive on preparations, the symbol is not needed.

2.2.2. Risk phrases:

In accordance with the regulations risk phrases are not required.

2.2.3. Safety phrases:

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- (S1/2) Keep locked up and out of the reach of children.  
 (S13) Keep away from food, drink and animal feedingstuffs.  
 (S20/21) When using do not eat, drink or smoke.  
 (S37) Wear suitable gloves.[for professional users only]  
 (S46) If swallowed, seek medical advice immediately and show this container or lable.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

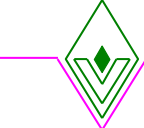
#### Hazardous ingredients

Chemical name	%	CAS EC Index	Risk phrases	Hazard designation	REACH reg. number
difenacoum	0,005	56073-07-5 259-978-4 607-157-00-X	R28-48/25- 50/53	N, T, T+	-
propane-1,2-diol	1-10	57-55-6 200-338-0 -	-	-	-
denatonium benzoate	0,001	3734-33-6 223-095-2 -	R20/22-37/38- 41-52/53	Xn	-
Triethanolamine (2,2',2"-nitrioltriethanol)	< 0,1	102-71-6 203-049-8	R36/37/38	Xi	-

### 4. FIRST AID MEASURES

**GENERAL MEASURES:** In case of accident or if you feel unwell, seek medical advice immediately (show to physician Safety data sheet and label).

- 4.1 **INHALATION:** Move the exposed person to fresh air. Obtain medical advice immediately. Unlikely to present an inhalation hazard as the product is supplied as a paste.
- 4.2 **SKIN CONTACT:** May cause irritation to skin. Remove contaminated clothing. Wash off immediately with plenty of soap and water. If irritation persists obtain medical attention. Contaminated clothing should be washed and dried before re-use.
- 4.3 **EYE CONTACT:** May cause irritation to eyes. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation persist, seek professional medical attention.
- 4.4 **INGESTION:** If swallowed, seek medical advice immediately and show the Safety Data Sheet or label. Rinse mouth with water. Do not provoke vomiting, seek medical advice first.

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**GENERAL MEASURES:** If you feel unwell and if symptoms persist seek medical advice.

**ADVICE FOR DOCTORS:** Difenacoum 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 h. 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).

**ANTIDOTE:** Vitamin K1

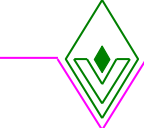
Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure.

## 5. FIRE-FIGHTING MEASURES

- 5.1 **SUITABLE EXTINGUISHING MEDIA:** Carbon dioxide. Dry chemical powder. Alcohol or polymer foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- 5.2 **UNSUITABLE EXTINGUISHING MEDIA:** Full water jet.
- 5.3 **SPECIAL EXPOSURE HAZARDS:** In case of fire do not breathe fumes/gases.
- 5.4 **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS:** Complete protective equipment.
- 5.5 **ADDITIONAL INFORMATION:** Cool containers at risk with water spray jet. If possible remove containers from endangered area. Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **PERSONAL SAFETY PRECAUTIONS:** Use personal protective equipment: protective clothing, gloves and eye/face protection. See section 8. Ensure adequate ventilation.
- 6.2 **ENVIRONMENTAL PRECAUTIONS:** Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental entry into water or ground occurs, inform responsible authorities.
- 6.3 **CLEAN-UP PROCEDURES:** Stop leak if without risk. Absorb product (with inert liquid-binding material: sand, diatomite, acid binders, universal binders, sawdust), collect it in special container and dispose it according to valid regulations on handling with waste. Rinse contaminated area with water! Do not flush into surface water or sanitary sewer system.

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## 7. HANDLING AND STORAGE

- 7.1 **HANDLING:** Use good personal hygiene practices-wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Ensure adequate ventilation. Do not breathe vapours/mist. Avoid contact with skin and eyes. Avoid formation of dust. Refer to instructions on label and regulations for safety and health at work. For use only in areas that are inaccessible to infants, children, companion animals and non-target animals. Wash hands and exposed part of the body before meals and after work.
- 7.2 **STORAGE:** Keep away from food, drink and animal feedingstuffs, in cool, dry and good ventilated area. Keep out of the reach of children and domestic animals. Keep away from oxidising substances.
- 7.3 **SPECIFIC USE(S):** Ready for use rodenticide containing 50 ppm difenacoum.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 EXPOSURE LIMIT VALUES (IUCLID)

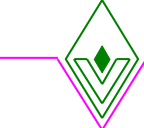
Chemical name	value	interval x time	Type
propane-1,2-diol (57-55-6)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (4 x 15min)	MAK (DE)
<i>Source: IUCLID (For information only)</i>			

### 8.2 EXPOSURE LIMIT VALUES

Flour	WEL 8-hr limit ppm:	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm:	WEL 15 min limit mg/m3: 30
propane-1,2-diol	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
(Propane-1,2-diol particulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
propane-1,2-diol	WEL 8-hr limit ppm: 150	WEL 8-hr limit mg/m3: 474
(Propane-1,2-diol total vapour and particulates)	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -

### 8.3 OCCUPATIONAL EXPOSURE CONTROLS:

Use good personal hygiene practices-wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not eat, drink or smoke while working. Keep away from food, drink and animal feedingstuffs Keep away from direct sun-light or other heat sources and sources of ignition. Prevent dusting.

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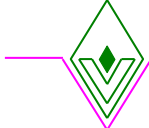
- 8.4 **RESPIRATORY PROTECTION:** Unlikely to present an inhalation hazard unless excessive dust is present. If levels approach the WEL, then suitable approved respiratory protection should be worn (mask with particle filter).
- 8.5 **SKIN PROTECTION:** The standard workers' clothing, rubber boots.
- 8.6 **HAND PROTECTION:** Protective rubber gloves.
- 8.7 **EYES PROTECTION:** Chemical splash goggles.if exposed to excessive dust.
- 8.8 **PROTECTIVE EQUIPMENT:** Wear protective clothing. Rubber boots.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	solid
Colour	green
Appearance:	Green soft paste
Odour:	characteristic
Solidification point:	N/A
Melting point:	N/A
Boiling point:	N/A
Flash point:	N/A
Self igniting:	N/A
Auto flammability:	No evidence of flammable properties based on consideration of the components and experimental use.
Danger of explosion:	Product does not present an explosion hazard. No evidence of explosive properties based on consideration of the components and experimental use.
pH:value (10 g/l) at 20°C:	N/A
Relative density/ bulk density	1.28 g/cm <sup>3</sup>
Solubility in with water:	N/A
N/A: data is not applicable	

## 10. STABILITY AND REACTIVITY

- 10.1 **STABILITY:** Product is stable under normal conditions according to handling and storage.

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10.2 **CONDITIONS TO AVOID:** No special precautions required. Consider the directions for use and storage. Protect from heat, direct sunlight, open fire, free sparks.

10.3 **MATERIALS TO AVOID:** Oxidising agents.

10.4 **HAZARDOUS DECOMPOSITION PRODUCTS:** Under normal use conditions no hazardous decomposition products expected. In case of fire/explosion vapours dangerous for health are spread.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 TOXICOLOGICAL INFORMATION FOR PRODUCT

**Inhalation:** Unlikely to present an inhalation hazard as the product is supplied as a paste.

**Skin contact:** Contact with skin may cause irritation.

**Eye contact:** Contact with eyes can cause irritation.

**Ingestion:** Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure.

**Carcinogenic effects:** No evidence to suggest anticoagulant rodenticides are carcinogenic.

**Mutagenic effects:** No evidence to suggest anticoagulant rodenticides are mutagenic.

**Toxic for reproduction:** The chemical is not classified as toxic for reproduction.

**Acute toxicity:** **LD50/oral:** > 30000 mg/kg (rat)

### 11.2 TOXICOLOGICAL INFORMATION FOR COMPONENTS/CONSTITUENTS

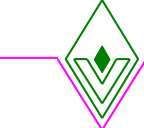
Difenacoum            Dermal Rat LD50 = 51.5 - 63 mg/kg  
                              Oral Rat LD50 > 1.8 mg/kg  
                              Inhalation Rat LC50/4 h = 16.27-20.74 µg/l

propane-1,2-diol    Oral Rat LD50 = >2000 mg.kg

## 12. ECOLOGICAL INFORMATION

Difenacoum            Algae EC50/72h > 0.51mg/l  
                              Daphnia LC50/48h > 0.91 mg/l  
                              Rainbow trout LC50/96h > 0.33 mg/l

propane-1,2-diol    Daphnia EC50/48h > 100 mg/l

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Fish LC50/96h > 100 mg/l

**Further information** Do not allow to enter ground water, water course or sewage system.  
Harmful to wildlife. Read all precautions before use.

### 13. DISPOSAL CONSIDERATIONS

13.1 WASTE CHEMICAL: Dispose of in compliance with all local and national regulations.

13.2. PACKAGING: Dispose completely emptied container according to regulations.

#### 13.3 REMARKS

Non-professionals : **Dispose of dead rodents** in accordance with local requirements. In the UK poisoned rodents should be double bagged using plastic bags and either disposed of in a household waste bin with a secure lid to prevent access of wildlife or pets or collected by a specialist waste contractor or the local authority.

Professionals : Dispose of dead rodents in accordance with local requirements. In the UK poisoned rodents (waste code 20 01 99) should be disposed of at a suitably permitted incinerator, landfill or burial site by the waste producer or a registered waste carrier. For further information on disposal contact the Environment Agency (<http://www.environment-agency.gov.uk>) or SEPA (<http://www.sepa.org.uk>).

**Remove all baits** after treatment and dispose of them in accordance with local requirements.

Non-professionals: In the UK waste bait should be double bagged in plastic bags and disposed of in a household waste bin with a secure lid to prevent access of wildlife or pets or taken to a civic amenity site. For information on civic amenity sites contact the local authority.

Professionals: In the UK waste bait is hazardous waste (code 20 01 19). For information on disposal contact the Environment Agency (<http://www.environment-agency.gov.uk>) or SEPA (<http://www.sepa.org.uk>).

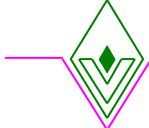
### 14. TRANSPORT INFORMATION

Not dangerous according to ADR.

### 15. REGULATORY INFORMATION

#### 15.1. INFORMATION ON LAWS

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- Dangerous preparations directive (99/45/EC) as amended
- Dangerous substances directive (67/548/EEC) as amended

## 16. OTHER INFORMATION

### 16.1. LIST OF RELEVANT R PHRASES

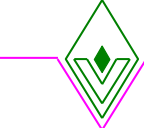
- (R20/22) Harmful by inhalation and if swallowed.
- (R28) Very toxic if swallowed.
- (R37/38) Irritating to respiratory system and skin.
- (R41) Risk of serious damage to eyes.
- (R48/25) Toxic: danger of serious damage to health by prolonged exposure if swallowed.
- (R50/53) Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- (R52/53) Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 16.2. SOURCES OF KEY DATA USED TO COMPILE THE DATA SHEET:

UK Competent Authority Product Assessment Report, Effect Rodent Pasta Bait Frame Formulation containing Difenacoum, Health and Safety Executive, UK, October 2011;  
Varnostni list, Effect Rodent Pasta Bait, Unichem d.o.o., datum izdaje:1.2.2010

16.3. FURTHER INFORMATION: This product is approved under Biocidal Product Regulations 2001 for use as directed. Registration Number UK-2011-0150



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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.