

SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **Ratimor Difenacoum Fresh Bait**

Creation date: **02.11.2009**

Revision: **27.1.2015**

Version: 1



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

1.1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Product name

Ratimor Difenacoum Fresh Bait

1.2. USE OF THE SUBSTANCE/PREPARATION

Use

Rodenticide for the extermination of mice and rats in and around buildings.

Uses advised against

To use only for the purposes stated in this Safety Data Sheet or on the product label. Any other use is prohibited. Rodenticide is not to be used outdoors. Do not use rodenticide unprotected in places where other animals or people move or stay.

1.3. COMPANY/UNDERTAKING IDENTIFICATION

Manufacturer

UNICHEM D.O.O.
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Tel: +386 1 755 81 50
Fax: +386 1 755 81 55
www.unicchem.si
e-mail: unicchem@unicchem.si

1.4. EMERGENCY TELEPHONE

Emergency

112

Supplier

+386 1 755 81 50

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of substance/preparation

Classification according to Reg. 1272/2008

According to the regulation, the chemical is not classified as dangerous. Safety data sheet available for professional user on request.

Classification according to directive 67/548/EEC or. 99/45/EC

According to the regulation, the chemical is not classified as dangerous. Safety data sheet available for professional user on request.

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2.2 Label elements

2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP]

Pictograms not applicable according to Regulation 1272/2008.

P102 Keep out of reach of children.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P401 Store away from food, drink and animal feeding stuffs.

2.2.2. Contains:

difenacoum

2.2.3. Special provisions

Rat poison bait must be used safely to minimize the risk to humans (especially children) and animals.

If the product is not used in accordance with the instructions, it poses a higher risk to animals and birds.

Carcasses of poisoned rodents are considered hazardous waste, remove them accordingly (contact your local waste disposal).

Do not allow predators to come into contact with the poisoned carcasses.

2.3. Other hazards

No information

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

For mixtures see 3.2.

3.2. Mixtures

Chemical name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification according to directive 67/548/EEC or 99/45/EC	REACH reg. number
difenacoum	56073-07-5 259-978-4 607-157-00-X	0,005	Acute Tox. 2; H300 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	T+; R28 T; R48/25 N; R50/53	-
Denatonium benzoate	3734-33-6 223-095-2 -	0,001	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335 Aquatic Chronic 3; H412	Xn; R20 Xi; R37/38-41 R52/53	-

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SECTION 4. FIRST AID MEASURES

4.1. First-aid measures

General measures

Remove affected person from the contaminated area to fresh air or well-ventilated area, providing her basic life functions and protect it from the cold or heat. Never give fluids or provoke vomiting if the victim is unconscious. Call the doctor and give him the information on the packaging and/or on the instructions for use of the preparation. **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. Indicated use of specific antidote of vitamin K1 (phytomenadionum) in case of bleeding or reduced activity of protrombine is in measure of 10-20mg (children 5-10mg) slowly i.v. or in infusion. Vitamin K1 (phytomenadionum) can be given about 6Xdaily in measure of 10 mg i.v. according to clinical picture, by the worst poisoning about 125 mg/daily. Vitamin K3 (menandion) is not effective! Because of danger of haematoma avoid intramuscular injection. At worse bleeding the following is needed: transfusion with blood and additional replacement of coagulation factors in shape of frozen plasma or protrombine complex. If necessary give special antidote even more weeks or months.

Skin contact

Take off all contaminated clothing. Wash thoroughly with plenty of water and soap! If feeling unwell seek medical help.

Eye contact

Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Check for and remove any contact lenses. If irritation persists, seek professional medical attention.

Inhalation

Comply with general measures.

Ingestion

Do not induce vomiting. Rinse mouth with water. Immediately consult a specialist. Show the physician the Safety Data Sheet or label.

4.2. Symptoms

Skin contact

Contact with skin may cause irritation.

Eye contact

It can cause short-term irritation.

Inhalation

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Ingestion

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

In case of poisoning bleeding disorders and increased bleeding tendency may occur.

In severe poisoning a strong internal bleeding can cause circulatory collapse and consequent death.

4.3. Indication of any immediate medical attention and special treatment needed

Difenacoum is an anticoagulant which may produce bleeding; this may be delayed for several days after exposure. Antidote: Vitamin K1.

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SECTION 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Alcohol or polymer foam.

Unsuitable extinguishing media

Full water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

In the event of fire the following is released: poisonous and irritating gases.

5.3. Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray jet. If possible remove containers from endangered area. Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective clothing for fire-fighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137) .

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). Refer to protective measures listed in sections 7 and 8.

Emergency procedures

Ensure adequate ventilation.

6.1.2. For emergency responders

-

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. Methods and material for containment and cleaning up

6.3.1. For containment

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6.3.2. For cleaning up

Take up mechanically and collect in suitable container and dispose according to current regulations.

6.3.3. Other information

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6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Measures to prevent fire

Ensure adequate ventilation.

Measures to prevent aerosol and dust generation

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Measures to protect the environment

For use only in areas that are inaccessible to infants, children, companion animals and non-target animals.

7.1.2. Advice on general occupational hygiene

Refer to instructions on label and regulations for safety and health at work. Use personal protective equipment. Avoid contact with skin and eyes. Do not eat, drink or smoke while working. Use good personal hygiene practices-wash hands at breaks and when done working with material. In the event of contamination and/or discomfort discontinue work and look for first aid. After working with the product wash yourself and change clothes. Ensure adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1. Technical measures and storage conditions

Store in the original, tightly sealed container in a cool and well ventilated place. Keep in a dry place. Keep away from food, drink and animal feedingstuffs Store at room temperature. Protect from direct sunlight. Keep out of the reach of children.

7.2.2. Packaging materials

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7.2.3. Requirements for storage rooms and vessels

Keep in properly labeled containers.

7.2.4. Storage class

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7.2.5. Further information on storage conditions

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7.3. Specific end use(s)

Recommendations

The product is intended for use as a rodenticide (biocidal agent). Before using this product read the instructions for use.

Industrial sector specific solutions

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

8.1.1. Occupational Exposure limit values

No information

8.1.2. Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

8.1.3. DNEL values

No information

8.1.4. PNEC values

No information

8.2. Exposure controls

8.2.1. Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Observe normal precautions that apply for handling with chemicals. 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.

Technical measures to prevent exposure

Good ventilation.

8.2.2. Personal protective equipment

Eye and face protection

No requirements under normal use conditions.

Hand protection

Protective gloves (EN 374). (rubber or PVC)

Skin protection

Wear suitable protective clothing.

Respiratory protection

Not needed under normal use and adequate ventilation.



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Thermal hazards

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8.2.3. Environmental exposure controls

Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

-	Physical state:	solid paste
-	Colour:	green
-	Odour:	characteristic

Important health, safety and environmental information

-	pH	No information
-	Melting point	No information
-	Boiling point/boiling range	No information
-	Flashpoint	No information
-	Evaporation rate	No information
-	Ignition temperature	No information
-	Explosion limits (vol%)	No information
-	Vapour pressure	No information
-	Vapour density	No information
-	Density	No information
-	Solubility	Water: Insoluble
-	Partition coefficient n-octanol/water (log Kow)	No information
-	Auto-ignition temperature	No information
-	Decomposition temperature	No information
-	Viscosity	No information
-	Explosive properties	Product is not explosive.
-	Oxidising properties	No oxidizing properties.

9.2. Other information

-	Remarks:	
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SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Stable under recommended transport or storage conditions.



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10.2. Chemical stability

Product is stable under normal conditions according to handling and storage.

10.3. Possibility of hazardous reactions

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10.4. Conditions to avoid

Avoid high temperatures.

10.5. Incompatible materials

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10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products expected. In case of fire/explosion vapours dangerous for health are spread.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity

For product

exp. route	Type	species	Time	value	Method	Remark
oral	LD ₅₀	rat		> 2000 mg/kg bw		
dermal	LD ₅₀	rat		> 2000 mg/kg bw		

For components

Chemical name	exp. route	Type	species	Time	value	Method	Remark
difenacoum (56073-07-5)	oral	LD ₅₀	rat		> 1,8 mg/kg bw		
difenacoum (56073-07-5)	dermal	LD ₅₀	rat		> 51,5 mg/kg bw		

11.1.2. Skin corrosion/irritation, serious eye damage/irritation, aspiration hazard

Additional information

The product is not classified as irritating to skin and eyes.

11.1.3. Respiratory or skin sensitisation

No information

11.1.4. Carcinogenicity, Mutagenicity, Reproductive toxicity

Carcinogenicity

No information



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(Germ cell) mutagenicity

No information

Reproductive toxicity

No information

Summary of evaluation of the CMR properties

No information

11.1.5. STOT-single and repeated exposure

No information

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Acute (short-term) toxicity

For components

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
difenacoum (56073-07-5)	LC ₅₀	0,1 mg/L	96 h	fish	<i>Oncorhynchus mykiss</i>		
	LC ₅₀	0,52 mg/L	48 h	crustacea	<i>Daphnia magna</i>		
	ErC50	0,51 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>		

12.1.2. Chronic (long-term) toxicity

No information

12.2. Persistence and degradability

12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information

12.2.2. Biodegradation

No information

12.3. Bioaccumulative potential

12.3.1. Partition coefficient n-octanol/water (log Kow)

For components

Substance (CAS Nr.)	Media	value	Temperature	pH	Concentration	Method
difenacoum (56073-07-5)	Octanol-water (log Pow)	> 3				

12.3.2. Bioconcentration factor (BCF)

No information



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No information

12.4.2. Surface tension

No information

12.4.3. Adsorption/Desorption

No information

12.5. Results of PBT and vPvB assessment

No evaluation.

12.6. Other adverse effects

No information

12.7. Additional information**For product**

Do not allow to enter ground water, water course or sewage system.
No ecotoxicological data available.

SECTION 13. DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**13.1.1. Product / Packaging disposal**Waste chemical**

Disposal must be made according to official regulations: to leave it to authorized collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems. Do not dispose together with household garbage.

Packaging

Completely emptied container dispose according to regulations. Dispose of in accordance with applicable waste disposal regulation Dispose of according to current environmental regulations.

13.1.2. Waste treatment-relevant information

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13.1.3. Sewage disposal-relevant information

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13.1.4. Other disposal recommendations

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SECTION 14. TRANSPORT INFORMATION



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-

14.2. UN proper shipping name

Not dangerous according to ADR.

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

NO

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

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SECTION 15. REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

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

15.1.1. Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION**Indication of changes**

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Key literature references and sources for data

Safety Data Sheet, EFFECT RODENT MEHKA VABA, UNICHEM d.o.o., 23 December 2013

List of relevant R phrases

- R20 Harmful by inhalation.
- 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.

List of relevant H phrases

- H300 Fatal if swallowed.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H372 Causes damage to organs through prolonged or repeated exposure .
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

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.