

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier: Ratimor Difenacoum Wax Blocks

1.2 Relevant identified uses of the substance or mixture and uses advised against:

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

To be used only in accordance with instructions provided on the product label. Any other use is prohibited.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

UNICHEM d.o.o., Sinja Gorica 2, Vrhnika, Slovenia

tel.: +386 (01) 75 58 150, fax.: +386 (01) 75 58 155

www.unichem.si

e-mail address: unichem@unichem.si

Importer:

Killgerm Chemicals Ltd, P.O.BOX 2,

Ossett, West Yorkshire, WF5 9NA, UK,

tel.: 01924 268 450, e-mail: technical@killgerm.com

1.4 Emergency telephone number:

UK National Poisons Information Service 0870 600 6266.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC oz. 99/45/EC:

The product is not classified as dangerous.

2.2 Label elements:

According to Directive 67/548/EEC oz. 99/45/EC:

Symbol letter(s): None required.

Risk phrases: None required.

Safety phrases:

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 label.

2.3 Other hazards:

None expected under normal conditions of handling and use. This product contains an anticoagulant compound which may cause bleeding if ingested. Phytomenadione, Vitamin K1, is antidotal.

SECTION 3: Composition/information on ingredients

3.1 Mixtures:

Chemical name	conc. [%]	CAS EC Index	Classification in accordance to Directive 67/548/EEC	Classification in accordance to Regulation 1272/2008 (CLP)
Difenacoum	0,005	259-978-4 56073-07-5 607-157-00-X	T+, N; R28, R48/25, R50/53	Acute Tox. 2, H300 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Denatonium benzoate	0,001	3734-33-6 223-095-2 /	Xn; R20, R38, R41, R52/53	Acute Tox. 4, H332 Acute Tox. 4, H302 STOT SE 3, H335 Skin Irrit. 2, H315 Eye Dam. 1 H318 Aquatic Chronic 3, H412

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Inhalation: This route of exposure is not anticipated.

Skin contact: Remove contaminated clothing. Wash affected area immediately thoroughly with soap and water. If irritation persists obtain medical assistance.

Eye contact: Rinse affected eye with clean running water for at least 15 minutes holding eyelids well apart. If irritation persist, obtain medical assistance.

Ingestion: If swallowed, seek medical advice immediately. Wash out mouth with water. Do not induce vomiting unless instructed by physician.

4.2 Most important symptoms and effects, both acute and delayed

None expected under normal conditions of handling and use. If ingested, symptoms may include: bruising easily, nose or gum bleeds, blood in stools or urine, excessive bleeding from minor cuts or abrasions. Note that poisoning symptoms may develop over the course of several days.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to physician: Difenacoum is an indirect anticoagulant. Phytomenadione, Vitamin K₁, is antidotal. In the case of suspected poisoning, determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K₁ orally or intravenously and continue until prothrombin time normalises. Repeat monitoring of prothrombin times. Treatment with phytomenadione may be required for several weeks.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO₂), alcohol resistant foam, dry powder extinguishers, water fog.

Unsuitable extinguishing media: Full water jet.

5.2 Special hazards arising from the substance or mixture

This product is not flammable but is combustible. High temperature decomposition or burning in air can result in the formation of toxic gases.

5.3 Advice for firefighters

Wear protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear suitable personal protective equipment. See section 8.

6.2 Environment precautions:

Keep away from drains, surface, ground water, and soil.

6.3 Methods and material for containment and cleaning up:

Clean up accidental spillages promptly by sweeping or vacuum. Transfer to a suitably labelled container for subsequent disposal. Wash the contaminated area with water, taking care to prevent the washings entering sewers or drains. If the product gets into water or soil, it should be removed mechanically. In the event of a significant accidental release, inform the appropriate authority.

6.4 Reference to other sections:

Please also see sections 8 and 13 for further information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with eyes and skin. Avoid formation of dust. Do not smoke eat or drink while handling this product . Always use good personal hygiene procedures when handling chemicals. Wash hands and face before eating, drinking or smoking. Read the label before use.

7.2 Conditions for safe storage, including any incompatibilities

Store in original container in a cool, dry, ventilated place, inaccessible to pets and wildlife. Keep out of the reach of children. Keep away from food and animal feedstuffs.

7.3 Specific end use(s)

Ready for use rodenticide.

SECTION 8: Exposure controls/ personal protection

8.1 Control parameters:

Occupational exposure limits: Not established

8.2 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.

Respiratory protection: Not required under normal conditions of handling and use.

Skin protection: Wear rubber gloves.

Eye protection: Not required under normal conditions of handling and use.

Environmental exposure protection: Prevent accidental exposure of the product to the environment. Use only in accordance with instructions given.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	solid
Colour	green
Appearance:	blocks
Odour:	slight
Solidification point:	N/A
Melting point:	Not determined
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:	No evidence of explosive properties based on consideration of the components and experimental use.
pH value	N/A
Solubility in with water:	Not determined
<i>N/A: data is not applicable</i>	

9.2 Other information: None known.

SECTION 10: Stability and reactivity

10.1 Reactivity

This product is stable under normal conditions of handling and use.

10.2 Chemical stability

This product is stable under normal conditions of handling and use.

10.3 Possibility of hazardous reactions

None expected under normal conditions of handling and use.

10.4 Conditions to avoid

Avoid extreme temperatures (below 0°C or above 40°C).

10.5 Incompatible materials

Avoid contact with strong oxidising agents.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products expected. Combustion or thermal decomposition may evolve toxic or irritant vapors.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral LD₅₀ (rat) > 2000 mg/kg bw (Difenacoum Rat LD₅₀ oral > 1.8 mg/kg bw)

Dermal LD₅₀ (rat) > 2000 mg/kg bw (Difenacoum Rat LD₅₀ dermal > 51.5 mg/kg bw)
Inhalation: This route of exposure is not expected.
Skin irritation: No skin irritation potential expected.
Eye irritation: No eye irritation potential expected.
Sensitization: Contains no known skin sensitizers.

Carcinogenic effects:

Product does not contain any components known to have a carcinogenic effect.

Mutagenic effects:

Product does not contain any components known to have a mutagenic effect.

Toxic for reproduction

Product does not contain any components known to have effects on fertility.

SECTION 12: Ecological information

12.1 Toxicity:

Controlled release of this product is not expected to cause environmental contamination. Use only in accordance with instructions given.

Ecotoxicity data for difenacoum

LC₅₀ (fish, *Oncorhynchus mykiss*) (96h): 0.10 mg/L

LC₅₀ (*Daphnia magna*) (48h): 0.52 mg/L

E_rC₅₀ (algae, *Selenastrum capricornutum*) (72h): 0.51 mg/L

12.2 Persistence and degradability:

Difenacoum is not readily biodegradable under normal conditions. Difenacoum is not volatile and therefore would not be expected to be present in the air in significant quantities.

12.3 Bioaccumulative potential:

The difenacoum log P_{OW} is greater than 3, which indicates a potential to bioaccumulate.

12.4 Mobility in soil:

Difenacoum and any potential degradation products, even if released indirectly to soil in small quantities, are not likely to move through the soil profile and are unlikely to reach groundwater in significant quantities.

12.5 Results of PBT assessment and vPvB assessment:

Not available.

12.6 Other adverse effects:

None known.

SECTION 13: Disposal consideration

13.1 Waste treatment methods:

Do not discharge to sewers, drains or watercourses. Dispose of packaging, remains of unused product and dead rodents in accordance with local and national regulations.

SECTION 14: Transport information

Not classified as dangerous for transport. Transport conditions should be in accordance with section 7.2.

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 considered hazardous for transport.

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

Above informations are valid for ADR/RID, IMDG/ADN.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulated under Biocidal Products Regulation 528/2012.

15.2 Chemical safety assessment

Regulated under Biocidal Products Regulation 528/2012.

SECTION 16: Other information

This Safety Data Sheet has been compiled in accordance with Regulation (EC) No 1907/2006 (as amended by Regulation (EU) No. 453/2010), Regulation (EC) 1272/2008 and Directive 1999/45/EC. Other National measures or guidance should be followed where appropriate.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

RID - Regulations Concerning the International Transport of Dangerous Goods by Rail

CAS - Chemical Abstracts Service

IMDG - International Maritime Code for Dangerous Goods

LC₅₀ - Lethal concentration, 50%

LD₅₀ - Median lethal dose, 50%

Literature references and sources for data:

Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Regulation (EC) no 1907/2006 of the European parliament and of the council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

Regulation (EC) No 1272/2008 of the European parliament and of the council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Assessment Report (Inclusion of active substances in Annex I to Directive 98/8/EC).

List of relevant R-phrases and hazard statements:

(R20)	Harmful by inhalation.
(R28)	Very toxic if swallowed.
(R38)	Irritating to skin.
(R41)	Risk of serious damage to eyes.
(R48/25)	Toxic: danger of serious damage to health by prolonged exposure if swallowed.

SAFETY DATA SHEET
Ratimor Difenacoum Wax Blocks

Revision: 1

Date of issue:
23.12.2013

(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.
Skin Irrit. 2	Skin irritation, category 2
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity category 1
Acute Tox. 1	Aspiration hazard, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity — repeated exposure, category 1
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Eye Dam. 1	Serious eye damage, category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, category 3
H332	Harmful if inhaled.
H335	May cause respiratory irritation
H302	Harmful if swallowed.
H310	Fatal in contact with skin
H300	Fatal if swallowed
H330	Fatal if Inhaled
H372	Causes damage to organs through prolonged or repeated exposure
H315	Causes skin irritation.
H318	Causes serious eye damage
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

Before using the product, ensure that you read and understand its label.

The information contained in this safety data sheet is, to the best of our knowledge and belief, accurate and reliable at the time of publication. The information relates only to the specific material designated in this safety data sheet. The product is not to be used for any other purpose than that described in this safety data sheet. User is responsible to ensure that they have all current data relevant to their particular use. Users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.