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UNICHEM d.o.o., Sinja Gorica 2, 1360 Vrhnika, Slovenia tel.: +386 1 7558 150, fax: +386 1 7558 155 unichem@unichem.si, www.unichem.si

Product name: RATIMOR WAX BLOCKS

Creation date: 22.4.2018 · Revision: 13.11.2021 · Version: 4

# SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name

#### **RATIMOR WAX BLOCKS**

Product code

chemius.net/Kqf05

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

Relevant identified uses

Rodenticides for control of rats and mice.

# Uses advised against

Use only for the purposes specified in this safety data sheet or on the label. The product should be used in accordance with the indications on the product label. Rodenticide should not be used in places occupied by other animals or people.

1.3. Details of the supplier of the safety data sheet

#### Supplier

UNICHEM D.O.O.

Address: Sinja Gorica 2, 1360 Vrhnika, Slovenia

Phone: +386 1 755 81 50 Fax: +386 1 755 81 55 www.unichem.si

E-mail: unichem@unichem.si

1.4. Emergency telephone number

**Emergency** 

112

Supplier

+386 1 755 81 50

# **SECTION 2. HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Repr. 1B; H360D May damage the unborn child.

STOT RE 1; H372 Causes damage to organs (blood) through prolonged or repeated exposure.

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#### 2.2 Label elements

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



#### Signal word: Danger

H360D May damage the unborn child.

H372 Causes damage to organs (blood) through prolonged or repeated exposure.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

P270 Do no eat, drink or smoke when using this product.

P280 Wear protective gloves.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local regulations.

#### 2.2.2. Contains:

bromadiolone (ISO) (CAS: 28772-56-7, EC: 249-205-9, Index: 607-716-00-8)

#### 2.2.3. Special provisions

EUH 208: Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction. Restricted to professional users.

### 2.3. Other hazards

No information.

# **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1. Substances

For mixtures see 3.2.

# 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
bromadiolone (ISO)	28772-56-7 249-205-9 607-716-00-8	0,005	Acute Tox. 1; H300 Acute Tox. 1; H310 Acute Tox. 1; H330 Repr. 1B; H360D STOT RE 1; H372 (blood) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	Repr. 1B; H360D: C ≥ 0,003 % STOT RE 1; H372: C ≥ 0,005 % STOT RE 2; H373: 0,0005 % ≤ C < 0,005 %	-
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		-

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# **SECTION 4. FIRST AID MEASURES**

#### 4.1. Description of first aid measures

#### General notes

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 anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. If symptoms develop and persist, seek medical attention.

#### Following skin contact

Take off all contaminated clothing. Wash affected skin areas thoroughly with plenty of water and soap. If symptoms develop and persist, seek medical attention.

#### Following eye contact

Immediately flush eyes with plenty of water while keeping eyelids apart (at least 15 minutes). After 5 minutes of rinsing, remove contact lenses, if present, and continue rinsing. If irritation persists, seek professional medical attention.

#### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Immediately consult a doctor. Show the physician the safety data sheet or label.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### **Inhalation**

Breathing dust can irritate the respiratory tract.

Coughing, sneezing, nasal discharge, labored breathing.

#### Skin contact

Contact with skin may cause irritation (redness, itching).

#### Eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

#### **Ingestion**

Bromadiolone is an anticoagulant which may produce bleeding. Smptoms may be delayed for several days after exposure. In case of poisoning bleeding disorders and increased bleeding tendency my 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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). ADVICE FOR DOCTORS: Bromadiolone is an indirect anti-coagulant. Phytomenadione, Vitamin K1, is antidotal. Determine prothrombin time not less than 18 hours after consumption. If elevated, administer Vitamin K1 until prothrombin time normalises. Continue determination of prothrombin time for two weeks after withdrawal of antidote and resume treatment if elevation occurs in that time.

# **SECTION 5. FIREFIGHTING MEASURES**

# 5.1. Extinguishing media

# Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant 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.

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#### 5.3. Advice for firefighters

#### Protective actions

In case of fire do not breathe fumes/gases. Cool containers at risk with water spray. If possible remove containers from endangered area.

#### Special protective equipment for firefighters

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

#### Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

# **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. Prevent access to unprotected personnel. Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

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#### 6.2. Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large 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

Avoid formation of dust.

# Measures to protect the environment

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

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PILE I according to Regulation 1907/2006

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#### 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. Do not eat, drink or smoke while working. Ensure adequate ventilation. Avoid contact with skin and eyes. Use good personal hygiene practices — wash hands at breaks and when done working with material. After working with the product wash yourself and change clothes.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1. Technical measures and storage conditions

Store in original, tightly closed container in a dry place. Store at room temperature. Keep container in a well ventilated place. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Keep away from animals. Protect from direct sunlight. Keep in a locked place.

# 7.2.2. Packaging materials

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#### 7.2.3. Requirements for storage rooms and vessels

Keep in properly labeled containers. Close opened containers after use. Put the containers upright to prevent from leaking.

#### 7.2.4. Storage class

-

#### 7.2.5. Further information on storage conditions

.

#### 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

-

# **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 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

# 8.1.3. DNEL/DMEL 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

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. Handle in accordance with good industrial hygiene and safety practice.

#### Organisational measures to prevent exposure

Do not eat, drink or smoke while working.

# Technical measures to prevent exposure

Keep away from food, drink and animal feeding stuffs. Good ventilation.

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# 8.2.2. Personal protective equipment

#### Eye and face protection

Tight fitting protective goggles (EN 166).

#### Hand protection

Protective gloves (EN 374).

#### Appropriate materials

Material	Thickness	Penetration Time	Remark
PVC			
Nitrile			

#### Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345).

#### Respiratory protection

Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. In case of dusting use respiratory protection. Use a half-mask (EN 140 or EN 149) with a particle filter P (EN 143).

#### Thermal hazards

-

# 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. Information on basic physical and chemical properties

-	Physical state:	solid
-	Colour:	red
-	Odour:	weak

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# Important health, safety and environmental information

рН	No information.
Melting point/freezing point	No information.
Initial boiling point/boiling range	No information.
Flash point	No information.
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density	Relative density: 1,17
Solubility	No information.
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	No information.
Viscosity	No information.
Explosive properties	Product is not explosive. Product is not self igniting.
Oxidising properties	Not oxidising.
	Melting point/freezing point Initial boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Explosion limits (vol%) Vapour pressure Vapour density Density Solubility Partition coefficient Auto-ignition temperature Decomposition temperature Viscosity Explosive properties

#### 9.2. Other information

-	Remarks:	

# **SECTION 10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Stable under recommended transport or storage conditions.

# 10.2. Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

# 10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid high temperatures.

10.5. Incompatible materials

Strong oxidising agents.

# 10.6. Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon oxides.

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# **SECTION 11. TOXICOLOGICAL INFORMATION**

# 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
For product	oral	LD <sub>50</sub>	rat		> 2000 mg/kg bw		
For product	dermal	LD <sub>50</sub>	rat		> 2000 mg/kg bw		
bromadiolone (ISO) (28772-56-7)	oral	LD <sub>50</sub>	rat		> 0,56 mg/kg bw		
bromadiolone (ISO) (28772-56-7)	dermal	LD <sub>50</sub>	rat		> 1,71 mg/kg bw		

### (b) Skin corrosion/irritation

No information.

# (c) Serious eye damage/irritation

No information.

# (d) Respiratory or skin sensitisation

No information.

# (e) (Germ cell) mutagenicity

No information.

#### (f) Carcinogenicity

No information.

# (g) Reproductive toxicity

No information.

# Summary of evaluation of the CMR properties

May cause harm to the unborn child.

# (h) STOT-single exposure

No information.

(i) STOT-repeated exposure

Additional information: May cause damage to organs through prolonged or repeated exposure.

# (i) Aspiration hazard

No information.

# **SECTION 12. ECOLOGICAL INFORMATION**

# 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

# For components

Substance (CAS Nr.)	Туре	Value	Exposure time	Species	Organism	Method	Remark
bromadiolone (ISO) (28772-56-7)	LC <sub>50</sub>	2,86 mg/L	96 h	fish	Oncorhynchus mykiss		
	LC <sub>50</sub>	2 mg/L	48 h	crustacea	Daphnia magna		
	EbC <sub>50</sub>	0,17 mg/L	96 h	algae	Scenedesmus subspicatus		

# 12.1.2. Chronic (long-term) toxicity

No information.

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#### 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

#### For components

Substance (CAS Nr.)	Media	Value	Temperature	рН	Concentration	Method
bromadiolone (ISO) (28772-56-7)	Octanol-water (log Pow)	> 3				

#### 12.3.2. Bioconcentration factor (BCF)

No information.

#### 12.4. Mobility in soil

#### 12.4.1. Known or predicted distribution to environmental compartments

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

No ecotoxicological data available.

Product is not classified as dangerous for environment.

#### For components

# Substance: bromadiolone (ISO)

The substance is not readily biodegradable.

The substance has a potential power accumulation.

#### **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: deliver it to authorised collector/remover/transformer of hazardous waste. Any disposal in the environment or discharging into water is prohibited.

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#### **Packaging**

Deliver completely emptied containers to approved waste disposal authorities.

# 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

# **SECTION 14. TRANSPORT INFORMATION**

14.1. UN number

Not applicable.

14.2. UN proper shipping name

ADR, RID, IMDG, ADN, IATA: Not dangerous according to transport regulations.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

NO.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.

# **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) (including last amendment Commission Regulation (EU) 2015/830)
  - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
  - 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

15.1.2. Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

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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Abbreviations and acronyms

ATE - Acute Toxicity Estimate

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

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW - see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

 $LC_{50}$  - Lethal Concentration to 50 % of a test population

LD<sub>50</sub> - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

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

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

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SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure (STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

**UN - United Nations** 

vPvB - Very Persistent and Very Bioaccumulative

#### Key literature references and sources for data

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#### List of relevant H phrases

H300 Fatal if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H360D May damage the unborn child.

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.



- Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ✓ Provided adequate transport data

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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.

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