 UNICHEM d.o.o. Sinja Gorica 2, 1360 Vrhnika Tel: 01/7558-150 Fax: 01/7558-155	SAFETY DATA SHEET		Revision: 9
			Date of issue: 29.10.2010
	RATIMOR Wax blocks		Printed: 31.01.2012

1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

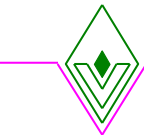
- 1.1 **Trade name:** **RATIMOR Wax blocks**
- 1.2 **Use of the preparation:** rodenticide, anticoagulant bait (RB)
- 1.3 **Supplier:** **UNICHEM d.o.o., Sinja Gorica 2, Vrhnika**
tel.: +386 (01) 75 58 150, fax.: +386 (01) 75 58 155

2. HAZARDS IDENTIFICATION

- 2.1 **Emergency Overview:** May be harmful if swallowed or absorbed through the skin, because this material may reduce the clotting ability of the blood and cause bleeding.
- 2.2 **Primary Entry Routes:** Oral (swallowing), dermal (absorption through skin)
- 2.3 **Acute Effects** (Signs and Symptoms of Overexposure):
- **Eyes:** May cause temporary eye irritation.
 - **Skin:** May be harmful if absorbed through skin. Symptoms of toxicity include lethargy, loss of appetite, reduced blood clotting ability and bleeding.
 - **Inhalation:** Due to this product's solid form, inhalation is unlikely.
 - **Ingestion:** May be harmful if swallowed. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.
- 2.4 **Chronic Effects:** Prolonged and/or repeated exposure to small amounts of product can produce cumulative toxicity. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.
- 2.5 **Medical Conditions Aggravated by Exposure:** Bleeding disorders
- 2.6 **Target Organs:** Blood
- 2.7 **Carcinogenicity:** Contains no known or suspected carcinogens.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Bromadiolon 0,05g/kg	CAS	EINECS/ELINCS	INDEX No.
	28772-56-7	249-205-9	-
Denatonium benzoate 0,001%	CAS	EINECS/ELINCS	INDEX No.
	3734-33-6	223-095-2	-
CA 24-E 0,125%	CAS	EINECS/ELINCS	INDEX No.
	79-07-2	201-174-2	-
Triethanolamine 0,06-0,08%	CAS	EINECS/ELINCS	INDEX No.
	-	-	-

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4. FIRST AID measures

Never induce vomiting and do not give anything to drink or eat if the patient is unconscious. Symptomatic treatment.

4.1 Inhalation: Not concerned.

4.2 Contact with skin: Take off contaminated clothes and shoes. Wash with water and soap. See medical advice.

4.3 Contact with eye: Flush immediately eyes with a large amount of water for 15 minutes. Take advice of an ophthalmologist if irritation develops.

4.4 Ingestion: Wash out mouth. Do not induce vomiting. Do not give anything to eat or drink. Keep patient warm at rest. Seek medical advice immediately.

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

Advice for physicians: Bromadiolone is an indirect anticoagulant. Phytomenadione, Vitamin K₁, is antidote. Determine prothrombin times 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.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media: Carbon dioxide (CO₂), alcohol-resistant foam, dry powder, water spray, mist or foam.

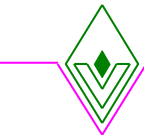
5.2 Unsuitable extinguishing media: Water jet from a fire hose.

5.3 Fire and explosion hazards: In case of fire, the product emits toxic and irritating fumes.

5.4 Special protective equipments: Wear self-contained breathing apparatus and protective clothing

Other recommendations: Do not breathe fumes. Keep fire exposed containers cool by spraying with water if exposed to fire.



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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal protection:** Wear protective equipment. (Figure 8)
- 6.2 Large Spill/Leak Procedures:** Isolate and contain spill. Limit access to the spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters. Scoop up spilled material and place in a closed, labeled container for use or disposal.
- 6.3 Small Spills:** Scoop up material for use according to label instructions.
- 6.4 Environment precautions:** Sweep into a suitable container and store material collected.

Other information: -

7. HANDLING AND STORAGE

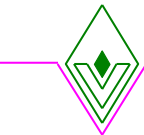
- 7.1 Storage Requirements:** Store in original container in a cool, dry area out of reach of children, pets and domestic animals. Do not contaminate water, food or feed. Keep container tightly closed. Do not remove or destroy the product label.
- 7.2 Handling Precautions:** Read the entire product label before using this rodenticide. Carefully follow all cautions, directions and use restrictions on the label. Avoid contact with eyes, skin or clothing.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Exposure limit values:** not known
- 8.2. Exposure controls:**
- 8.2.1 Occupational exposure controls**
- 8.2.1.1: **Respiratory protection:** Not concerned.
- 8.2.1.2: **Hand protection:** Wear suitable gloves.
- 8.2.1.3 **Eyes protection:** Wear protective glasses.
- 8.2.1.4: **Skin protection:** Wear suitable cloth.
- 8.2.2 Environmental exposure protection:** Avoid release to the environment.
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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information		
Appearance:	Red wax blocks	
Odour:	Specific – according to aroma	
9.2. Important health, safety and environmental information		
pH:	n.a.	
Boiling point/boiling range:	n.a.	

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Solidification point:	(55-60 – paraffin)	
Flash point::	-	
Flammability:	none	
Self ignition::	none	
Explosive properties:	none.	
Oxidizing properties:	none.	
Density:	-	
Water solubility	practically insoluble (19 mg/L at 20°C – bromadiolone)	
Viscosity:	-	
Vapour pressure:	(2×10^{-6} Pa at 20°C – bromadiolon)	
Partition coefficient: n-octanol/water	(log Kow=7.3 – bromadiolon)	
9.3 Other information: n.a.: not applicable		

10. STABILITY AND REACTIVITY

10.1 **Condition to avoid:** High temperature.

10.2 **Material to avoid:** Strong oxidizers.

10.3 **Hazardous decomposition products:** Stable under normal conditions. Combustion or thermal decomposition will produce toxic and irritant fumes.

11. TOXICOLOGICAL INFORMATION

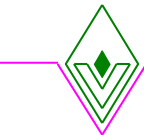
All data is about the active ingredient – BROMADIOLONE.

11.1 Acute toxicity:

Oral:	LD ₅₀ (rat) = 1.125 mg/kg (WHO)
	LD ₅₀ (rat) = 18,000 mg/kg – for bait
	LD ₅₀ (mouse) = 1.75 mg/kg
Dermal:	LD ₅₀ (rat) = 2.1 mg/kg
Inhalation:	LC ₅₀ (4h, rat) = 5.0 – 19.3 mg/m ³

11.2 Irritant potential:

Eyes:	Slightly irritating (rabbits)
Dermal:	No irritating
Sensitization:	Unknown

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12. ECOLOGICAL INFORMATION

All data is about the active ingredient – BROMADIOLONE.

12.1 **Ecotoxicity:** Fish: LC₅₀ (96 hours, different species) = 1.4 – 3.5 mg/L.

Avian: LC₅₀ = 0.264 mg/kg

12.2 **Mobility:** K_{OC} = 528; classification: immobile (Technical report n.14/07/1997 Chemservice)

12.3 **Persistence and degradability :** DT₅₀ (soil) = 1.8 – 7.4 days

12.4 **Bioaccumulative potential:** Log P_{ow}: 3.5 (Studio CH-14/96-B Chemservice)

12.5 **Results of PBT assessment:** no data

Other information: As the product contains 50 ppm bromadiolone, unlikely to be hazardous to aquatic life. Do not dispose material in sewers and waterways.

13. Disposal consideration

Disposal: Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label.

Disposal should be in accordance with local state or national legislation. Make container unusable.

14. Transport information

Transportation Data (49 CFR): This product is not regulated as a hazardous material for all modes of transportation within the U.S.

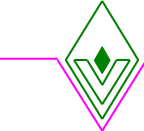
Road, rail:	Sea	Air
Class: -	Class: -	Class
ADR / RID: -	IMO / IMDG: -	ICAO / IATA: -
group: -	group: -	Group:-

15. REGULATORY INFORMATION

TSCA: All components of this product are listed on the TSCA inventory.

OSHA Hazard Classification: Chronic health hazard.

Proposition 65: Contains no components subject to warning requirement.

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16. OTHER INFORMATION

Information presented on this Material Safety Data Sheet is believed to be accurate at the time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner/conditions of use, storage or local regulation.
