

 <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: 5
	<b>RATIMOR Soft bait</b>	Date of issue: <b>19.02.2008</b>
		Printed: 07.11.2008

## 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY

- 1.1 Trade name: **RATIMOR Soft bait**
- 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 Safety hazard: not explosive, not oxidising agent
- 2.2 Hazard to health: Harmful in contact with skin and if swallowed.
- 2.3 Hazard to environment: Harmful to wildlife. Wild mammals and birds may be at greater risk if the product is not used in accordance with its label.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

	SYMBOL	R-Phrases	S-Phrases
<b>Bromadiolon 0,05g/kg</b>	T+,N	R26/27/28, 48/24/25, 50/53	S1/2,13,46,49,61
	<b>CAS</b>	<b>EINECS/ELINCS</b>	<b>INDEX No.</b>
	28772-56-7	249-205-9	-
IUPAC: 3-[3-(4'-bromobiphenyl-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxycoumarin			
CA: 3-[3-(4'-bromo [1,1'-biphenyl]-4-yl)-3-hydroxy-1-phenylpropyl]-4-hydroxy-2H-1-benzopyran-2-one			
	SYMBOL	R-Phrases	S-Phrases
<b>BITREX 0,05g/kg</b>	Xn	R20/22, 38, 41,52/53	S22,26,35,36/37/39,45,61
	<b>CAS</b>	<b>EINECS/ELINCS</b>	<b>INDEX No.</b>
	3734-33-6	223-095-2	-
IUPAC: N-[2-[2,6-dimethyl phenyl]amino]-2-oxoethyl]-N,N-diethylbenzenemethanaminium benzoate			

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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 K<sub>1</sub>, is antidote. Determine prothrombin times not less than 18 hours after consumption. If elevated, administer Vitamin K<sub>1</sub> 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

The product is not-flammable, but is combustible.

5.1 **Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), 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.

#### 6. ACCIDENTAL RELEASE MEASURES

6.1 **Personal protection:** Wear protective equipment. (Figure 8)

6.2 **Environment precautions:** Sweep into a suitable container and store material collected.

6.3 **Clean-up procedures:** Rinse area with water and cleaning agent.

**Other information:** -

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## 7. HANDLING AND STORAGE

- 7.1 **Handling:** Wash hands and exposed part of the body with soap after work. Always use good personal hygiene procedures when handling chemicals.
- 7.2 **Storage:** Store in dry cool conditions. Keep away from food, drink and animal feeding stuffs. Keep in original container.
- 7.3 **Specific use:** product is meant for diminish unwanted population of rats and mice.

## 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:** Not concerned.
- 8.2.1.4: **Skin protection:** Wear suitable cloth.
- 8.2.2 **Environmental exposure protection:** Avoid release to the environment.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. General information

Appearance: Red soft mass like for cakes  
 Odour: Specific – according to aroma

### 9.2. Important health, safety and environmental information

pH: n.a.  
 Boiling point/boiling range: n.a.  
 Solidification point: n.a.  
 Flash point: -  
 Flammability: none  
 Self ignition: none  
 Explosive properties: none.  
 Oxidizing properties: none.  
 Density: ca. 0.8 kg/dm<sup>3</sup>  
 Water solubility: practically insoluble  
 (19 mg/L @ 20°C – bromadiolon)  
 Viscosity: -  
 Vapour pressure: (2×10<sup>-6</sup> Pa @20°C – bromadiolon)  
 Partition coefficient: n-octanol/water (log Kow=7.3 – bromadiolon)

9.3 **Other information:** n.a.: not applicable

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## 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<sup>3</sup>

### 11.2 Irritant potential:

Eyes: Slightly irritating (rabbits)

Dermal: Non irritating

Sensitization: Unknown

## 12. ECOLOGICAL INFORMATION

For active ingredient:

12.1 **Ecotoxicity:** Fish:  $LC_{50}$  (96 hours, different species) = 1.4 – 3.5 mg/L.

Avian:  $LC_{50}$  = 0.264 mg/kg

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

12.3 **Persistence and degradability :**  $DT_{50}$  (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:** Do not dispose material in sewers and waterways.

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### 13. Disposal consideration

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

### 14. Transport information

There are no regulatory restrictions affecting the transport of the product. Transport conditions should be in accordance with section 7.2.

UN No.: 0; Not restricted.

**Road, rail:**

Class: -  
ADR / RID: -  
group: -

**Sea**

Class: -  
IMO / IMDG: -  
group: -

**Air**

Class  
ICAO / IATA: -  
Group:-

### 15. REGULATORY INFORMATION

15.1 **Symbols and** labelling: **Xn - Harmful**



15.2 **Special risks (R):**

- R21/22 – Harmful in contact with skin and if swallowed.
- R48/21/22 – Harmful: prolonged skin contact or ingestion may cause serious health problems.
- R 51 – Toxic to aquatic organisms

15.3 **Safety advices (S):**

- S 2 – Keep 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.
- S36/37 – Wear suitable protective clothing and gloves.
- S46 – If swallowed, seek medical advice immediately and show this container or label.
- S 61 - Avoid release to the environment. Refer to special instructions / Safety data sheets.

### 16. OTHER INFORMATION

All the information of this safety data sheet is based on our actual knowledge as well as on EEC regulations.

The product has not to be employed for different uses than those indicated in section 1.

**Training:** Workers should be trained avoid skin contact with the bait.

**R-sentences in** the document:

- R20/22 – Harmful by inhalation and if swallowed.
- R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.
- R26/27/28 – Very toxic by inhalation, in contact with skin and if swallowed.
- R36/38 – Very toxic by inhalation, in contact with skin and if swallowed.
- R38 – Irritating to skin.
- R41 – Risk of serious damage to eyes.

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R48/24/25 – Toxic danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R50/53 – Toxic danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-sentences in the document:**

S1/2 – Keep locked up and out of the reach of children.

S22 – Keep locked up and out of the reach of children.

S24 – Keep locked up and out of the reach of children.

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 – After contact with skin, wash immediately with plenty of water with soap.

S35 – This material and its container must be disposed of in a safe way.

S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.

S45 – In case of accident or if you feel unwell, seek medical advice immediately.

S49 – Keep only in the original container

S60 – This material and its container must be disposed of as hazardous waste.



# RATIMOR®

## SOFT BAIT for mice and rats

**New!**



**KILLS RATS AND MICE**  
**KILLS WARFARIN**  
**RESISTANT NORWAY RATS**

ACTIVE INGREDIENT:  
Bromadiolone (CAS #2872-56-7):.....0.005%  
INERT INGREDIENTS\*:.....99.995%  
Total  
100.000%  
*\*Contains Denatonium Benzoate*

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See Back Panel for additional precautionary labeling.  
Manufactured by: UNICHEM d.o.o.,  
Sinja Gorica 2, 1360 Vrhnika, Slovenia  
EPA Reg. No. 82744-2  
EPA Est. No. 82744-SLO-001

Net Weight: **18 lb**

**LEADER IN RODENT  
CONTROL TECHNOLOGY**

**UNICHEM**

[www.ratimor.com](http://www.ratimor.com)

# RATIMOR®

## SOFT BAIT for mice and rats

### FIRST AID

Have label with you when obtaining treatment advice.

#### *If swallowed:*

- Call a poison control center, doctor, or 1-800-222-1222 (toll free number optional) immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.

#### *If on skin or clothing:*

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center, doctor, or 1-800-222-1222 immediately for treatment advice.

#### *In in eyes:*

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center, doctor, or 1-800-222-1222 immediately for treatment advice.

### NOTE TO PHYSICIAN OR VETERINARIAN

If swallowed, this material may reduce the clotting ability of the blood and cause bleeding. If ingested, administer Vitamin K1 intramuscularly or orally. Repeat as necessary based on monitoring of prothrombin times

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**READ THIS LABEL:** Read this entire label and follow all use directions and use precautions. Use only for the sites, pests, and application methods described on this label.

**IMPORTANT:** Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent accidents:

1. Store unused product out of reach of children and pets.
2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents

such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Even stronger bait stations are needed in areas open to hoofed livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.

**3.** Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

**USE RESTRICTIONS:** This product may be used to control Norway rats, roof rats and house mice only at the **Urban** and **Non-urban** sites identified below. Do not use this product in sewers. Do not place bait near to or inside of ventilation duct openings. Do not contaminate water, food, feed, food or feed handling equipment, milk or meat handling equipment, or any area where there is a possibility of contaminating food, feed, milk, or meat, or surfaces that come into contact with food, feed, milk, or meat. All placements of this product in USDA-inspected facilities must be in tamper-resistant bait stations. Do not broadcast bait. Wear water-resistant gloves when handling bait.

**Urban Areas:** This product may only be used in and around homes, industrial, commercial, and public buildings, and similar man-made structures; in transport vehicles (ships, trains, and aircraft) and in and around related port or terminal buildings; and in alleys. All outdoor bait placements must be made in tamper-resistant bait stations, locked and secured as necessary, unless children, pets, domestic animals, and nontarget wildlife are reliably denied access to the bait placement locations.

**Non-urban Areas:** This product may only be used inside of homes, and agricultural buildings.

**SELECTION OF TREATMENT AREAS:** Determine areas where rats and mice will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, beside burrows, in corners and concealed places, between floors and walls, or in locations where signs of rats or house mice have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

**APPLICATION DIRECTIONS:** Each bag of **RATIMOR Soft bait** contains approximately 0.38 ounces (10.75 grams) of bait.

**Norway Rats and Roof Rats:** Apply 10 to 42 bait bags per placement for controlling rats. Space placements 15 to 30 feet apart at appropriate locations within the infested area. Maintain a continuous supply of fresh bait for at least 10 days or until signs of new feeding by rats on bait cease to appear.

**House Mice:** Apply 1 bait bag per placement, usually spaced 8 to 12 feet apart. Two bags may be needed at points of very high mouse activity. Maintain a constant supply of fresh bait for 15 days or until signs of mouse activity cease.

**Follow-up:** Replace contaminated or spoiled bait immediately. Collect and properly dispose of dead animals and leftover bait and bait bags, as well as any bait that has

become accessible to non-target animals. To discourage re-infestation, limit sources of rodent food, water, and harborage as much as possible. If re-infestation does occur, repeat treatment. For continuous sources of infestation, set up permanent bait stations and replenish them as needed.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminate clothing before reuse.

#### Applicators and other handlers must wear:

Long sleeve shirt, long pants, chemical-resistant gloves, shoes, and socks.

#### ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

**PESTICIDE CONTAINER:** Do not reuse empty container. Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration or, if allowed by state and local authorities, by burning. If burned stay out of smoke. Call your Local Waste Agency for any questions on proper disposal.

**DISCLAIMER:** To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions

Production date and serial No.: Printed on label.

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