

# SAFETY DATA SHEET

## MURIN FACOUM BLOCK

Date of issue: February 2009

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### 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

- 1.1 Identification of the preparation: MURIN FACOUM BLOCK
- 1.2 Use of the preparation: Rodenticide bait
- 1.3 Company identification: VEBI ISTITUTO BIOCHIMICO SRL  
Via Desman 43  
35010 Borgoricco (PD) - Italy  
Phone 39/49/9337111  
Fax 39/49/5798263
- 1.4 Emergency phone number: 39/49/9337111

### 2. HAZARD IDENTIFICATION

**MURIN FACOUM CREAM** is a rodenticide bait containing an anticoagulant active ingredient, the Brodifacoum.

**Health risks:** no hazard indication. HANDLE WITH CARE.

**Environment risks:** no hazard indication. Do not leave the unused baits in the environment.

### 3. COMPOSITION

The preparation contains:

Brodifacoum (active ingredient): 0.005%

IUPAC name: 3-[3-(4'-bromobiphenyl-4-yl)-1,2,3,4-tetrahydro-1-naphthyl]-4-hydroxycoumarin

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CAS number : 56073-10-0

CEE number : 259-980-5

Symbols: T+; N R phrases: 27/28-48/24/25-50/53

**Denatonium benzoate (repulsive agent) 0.001%**

NomeIUPAC: N-[2-(2,6-Dimethylphenyl)amino]-2-oxoethyl]-N,N, diethylbenzethanaminium benzoate

CAS N. : 3734-33-6 EINECS N: 2230952

Simboli : Xn

Frase R: 20/22, 38, 41, 52/53

### 4. FIRST-AID MEASURES

General indications:

In any case, it's better to seek medical advice.  
Do not give any substance through mouth to unconscious people.

- Skin contact: Wash skin immediately with soap and plenty of water.

- Eye contact: Flush eyes immediately with plenty of water for at least 15/20 minutes lifting eye lids. If eyes are still red and there is still nuisance, consult an ophthalmologist.
- Ingestion: Flush mouth with water and seek medical advice
- Inhalation: not applicable because the preparation is not an aerosol

Advice for the doctor: the preparation contains an anticoagulant substance and its effects can persist for a long time.

It is advisable:

1. To check the prothrombinic activity many times, also after a few days, particularly if the quantity swallowed is high. The antidote is vitamin K1.
2. In animals and particularly in pets, vitamin K1 can be given even in absence of alterations of the coagulation, because of the gravity of the haemorrhage which can appear in case of ingestion.

## **5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media: Foam, chemical powders, CO<sub>2</sub>
- Extinguishing media which must not be used for safety reasons: none
- Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Toxic gas (CO<sub>x</sub>, Br<sub>2</sub>)
- Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective clothing

## **6. ACCIDENTAL-RELEASE MEASURES**

- Personal precautions: Wear suitable gloves and protective clothing.
- Environmental precautions: Avoid that the product reaches drains, water drains and penetrates into the soil. If waters or drains are polluted, inform immediately the competent Authorities.
- Methods for cleaning up: Pick up accurately the product. Wash with water.

## **7. HANDLING AND STORAGE**

- 7.1 Handling: Use all the individual precautions while handling the product. Do not eat, drink and smoke while handling the product.
- 7.2 Storage: Keep the product tightly closed in its original pack, in cool and dry places, far from unauthorised people and far from foods.
- 7.3 Specific measures: ---

## **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

- Respiratory protection: not necessary because aerosol are not developed
- Hand protection: Gloves for chemical products. Change them periodically.
- Eye protection : Not necessary
- Skin protection: Protective clothes. Change them periodically.

All the usual precautions for handling chemical products have to be followed.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **9.1 General Information**

Physical state:	paraffined block
Colour:	blue
Odour:	characteristic
Flash point:	> 120°C
Water solubility:	lightly soluble

## **10. STABILITY AND REACTIVITY**

10.1 Conditions to avoid:	Exposure to high temperatures (> 40°C)
10.2 Materials to avoid:	none
10.3 Hazardous decomposition products:	Thermic decomposition can produce toxic exhalations (carbon oxide)

## **11. TOXICOLOGICAL INFORMATION**

In this moment toxicological data about the product are not disposable.  
The following information describes the toxicity of the pure active ingredient (Brodifacoum).

- Oral toxicity: LD<sub>50</sub> acute oral (rat) : 0,3 mg/kg (WHO)
- Acute dermal toxicity: LD<sub>50</sub> > 2.000 mg/kg

## **12. ECOLOGICAL INFORMATION**

The product **MURIN FACOUM BLOCK** contains the following dangerous substances:

### **Brodifacoum 0.005%**

CAS: 56073-10-0

EINECS: 259-980-5

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### **Denatonium Benzoate 0.001% (it is a «repulsive agent»)**

CAS: 3734-33-6

EINECS: 2230952

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

In this moment ecotoxicological data about the product MURIN FACOUM BLOCK are not disposable.  
The following information describes the toxicity of a solution (0.25%) of the active ingredient Brodifacoum.

Toxic effects on fish, plankton and other organisms. Limited risk for the waters.

### **12.1 Ecotoxicity**

- Fish\*: At the dosage of 10 mg/l, during the 96 hours of observation, no symptom of toxicity has appeared and no death has occurred (Report no. 95/11604 Biolab)
- Algae\*: At the dosage of 10 mg/l there is no difference in the growing of the algae (Report no. 95/11603 Biolab).

- Daphnia\*: Cl<sub>50</sub> is > 10 mg/l (Report no. 95/11602 Biolab)

*\*reports refer to "Concentrate 0,25%"*

### **12.2 Mobility**

Absorption coefficient of the active ingredient is Koc = 912 ; classification: no leaching (Technical Report n. 1 14/07/1997 Chemservice)

### **12.3 Persistence and degradability**

The active ingredient is scarcely degradable

### **12.4 Bioaccumulative potential**

The active ingredient has Log Pow: 10000 (Study CH-14/96-B Chemservice)

### **12.5 Other adverse effects**

Not available

## **13. DISPOSAL CONSIDERATIONS**

- Disposal: Arrange disposal by incineration or with other approved suitable treatments.
- Container disposal: Elimination or recycling according with the local Authority Regulations
- Follow in any case the local Authority Regulations.

## **14. TRANSPORT INFORMATION**

The transport of this product is not subject to the regulations for «dangerous products».

Rail and road transport (RID/ADR): NO

Sea shipment IMDG: NO

Air shipment IATA: NO

## **15. REGULATORY INFORMATION**

The product is not classified according to Directive 1999/45/CE and 2001/60/CE.

## **16. OTHER INFORMATION**

Complete text of the R Phrases indicated in Section 3:

R 20/22 Harmful by inhalation and if swallowed

R 27/28: Very toxic in contact with skin and if swallowed.

R 38 Irritating to skin

R 41 Risk of serious damage to eyes

R 48/24/25: Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.

R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

The information of this Material Safety Data Sheet is based on our present knowledge and on the EEC regulations. The product must not be used for purposes which are different from the ones specified. It is the user's responsibility to take all the necessary measures in order to follow the local and national regulations.

*The present sheet deletes and substitutes all previous edition.*