



SAFETY DATA SHEET

MURIN DIFEPASTA

In compliance with Regulation (EU) 453/2010

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date: April 2012

1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 - Identification of the product

Trade name: **MURIN DIFE PASTA**

1.2 - Relevant identified uses of the substance or mixture and uses advised

Identification of the substance/preparation: domestic and professional use rodenticide

Medical Surgical Device - Ministry of Health Registration no. 18349

1.3 Details on the supplier of the safety data sheet

VEBI ISTITUTO BIOCHIMICO SRL

Via Desman, 43 - 35010 S. Eufemia di Borgoricco (PD)

Tel. +39 (0)499337111 Fax. +39 (0)495798263

info@vebi.it; www.vebi.it

1.4 Emergency telephone number

Milan Poisons Centre (Niguarda Hospital) +39 02 66101029

VEBI customer service: Tel. +39 49 9337111

2) IDENTIFICATION OF THE DANGERS OF THE FORMULA

2.1 Classification of the substance or mixture

Classification in accordance with Regulation EC no. 1272/2008: not classified

Classification in accordance with Directive 67/548/EEC or Directive 1999/45/EC: not classified

2.2 Label elements

The product is a rodenticide bait -based on an active ingredient, difenacoum, acting with anticoagulant properties.

'Presidio medico chirurgico' product requiring Italian Ministry of Health approval for sale

Ministry of Health registration n° 18349

Registration holder: VEBI ISTITUTO BIOCHIMICO SRL - Via Desman 43 – 35010 Borgoricco (PD) ITALY

Health hazards: no hazard

HANDLE WITH CARE. KEEP OUT OF REACH OF CHILDREN

Environmental risks: Not specified. Collect baits not consumed.

Please refer to the full text of the label ministerial.

2.3 Other hazards

3) COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characteristics: mixtures

Description: the preparation is a mix containing the following substances classified as hazardous in accordance with Directive 67/548/EEC as subsequently amended and Regulation EC no. 1272/2008.

Difenacoum 0.005%

IUPAC name: 3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin

CAS n°: 56073-07-5

EINECS no.259-978-4

67/548/EC classification

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



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CLP classification

H phrases : H300, H372, H400 - H410

Denatonium benzoate 0.001%

IUPAC NAME: phenylmethyl-[2- [(2,6-dimethylphenyl)amino]- 2-oxoethyl]-diethylammonium benzoate

CAS n°: 3734-33-6

EINECS no.: 223-095-2

67/548/EC classification

Symbols: Xn, Xi R phrases: R20/22, 38, 41, 52/53

CLP classification

H phrases: H330, H318, H302, H315, H412

For the full text of the R and H phrases, refer to point 16.

4) FIRST AID MEASURES

4.1 Description of first aid measures

General information: in any case, seek medical advice showing the physician this sheet and the product label. Do not give anything by mouth to an unconscious person.

Skin contact: **Remove contaminated clothing and shoes. We recommend washing areas that have come into contact with the product using soap and water and rinsing thoroughly. If irritation persists, seek medical advice.**

Contact with eyes: Flush immediately with plenty of running water for at least 15 minutes, with lids parted. If irritation persists, seek advice from an optician.

Ingestion: Seek medical advice, showing container and label.

Inhalation: take the patient outdoors. If breathing difficulties should arise, seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further information available.

4.3 Indication of any immediate medical attention and special treatment needed.

5) FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: CO₂, foam, chemical powder, sprayed water.

5.2 Special hazards arising from the substance or mixture

No further information available.

5.3 Advice for firefighters

Specific protective equipment: avoid inhaling the fumes. Use respiratory protection.

6) ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective gloves.

6.2 Environmental precautions

Prevent the product from entering water courses, drainage water or from penetrating soil. If the product has run into waterways, sewer system or has contaminated the ground or vegetation, report the incident to the competent authorities.

6.3 Methods and material for containment and cleaning up

Wear protective gloves and collect up the product. Dispose of the contaminated material in accordance with current legislation. **Wash the contaminated area with plenty of water and detergents. Store the washing water in a suitable container for disposal.**



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6.4 Reference to other sections

For more information, refer to points 7, 8 and 13.

7) HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear protective gloves. **Wash hands and all exposed parts of the body with soap and water after use.**

7.2 Conditions for safe storage, including any incompatibilities

Always keep containers properly closed. Avoid direct exposure to the sun and heat sources. Store in cool, suitably ventilated environments.

7.3 Specific end use(s)

No further information available.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1 Control parameters

Components with critical values that require monitoring at the workplace

According to the data in our possession, the product does not contain any significant quantities of substances for which limit values must be kept under control in working environments.

8.2 Exposure controls

General rules: keep away from food, drink and animal foodstuffs. Wash hands after coming into contact with the product. Do not inhale any dust.

Precautionary measures: keep rooms where the product is being stored/handled suitably ventilated.

Respiratory protection: not required

Hand protection: wear suitable protective gloves.

Eye protection: not required.

Skin protection: wear suitable protective clothes.

9) PHYSICAL-CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: paraffinated PASTA

Colour: green

Odour: characteristic

Boiling point: ----

Explosive properties: n.a.

Oxidising properties: n.a.

Vapour pressure: n.a.

pH: ---

Flash point: ---

Dynamic viscosity: ---

Relative density: ----

Solubility in water: lightly soluble

10. STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions. Avoid temperatures > 40°C



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10.2 Chemical stability

Decomposition hazards: in normal conditions, the product does not decompose.

10.3 Possibility of hazardous reactions

Not known

10.4 Conditions to avoid

Avoid temperatures > 40°C

10.5 Incompatible materials

Not known

10.6 Hazardous decomposition products

Thermal decomposition causes the formation of carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No toxicological data available on chemical product in its exact state. Consequently, evaluation of toxicological effects resulting from exposure to the preparation must be based on the concentration of its individual ingredients. Toxicological information is given below on the hazardous substances contained in the preparation.

Acute toxicity

Difenacoum

LD50 (oral), rat: between 5 and 50 mg/kg bw

LD50 (skin), rat: 51.54 mg/ kg bw

Denatonium benzoate

LD50 (oral) = 749 mg/kg rat

LD50 (skin): >2,000 mg/kg rat

LC50 (inhalation) 4h = 0.2 mg/l rat

12) ECOLOGICAL INFORMATION

General considerations: The product should be considered harmful to the environment and has high toxicity for aquatic organisms with the possibility of causing long-term adverse effects in the aquatic environment. Use in accordance with good work practices and do not release the product to the environment.

12.1. Toxicity

Difenacoum

Acute toxicity fish: CL50 = 0.33 mg/L

Acute toxicity *Daphnia magna*: CL50 = 0.91 mg/L

Algal grow inhibition: CL50 = 0.14 mg/L

Denantonium Benzoate

96 h fish: CL50 >1000 mg/L

shrimp LC50 > 400 mg/L

Daphnia magna: EC50 (48h) = 13 mg/L

12.2. Persistence and degradability

Difenacoum

Absorption coefficient to the ground: Koc = 1.9×10^6 (calculated), not mobile in soil

Denantonium benzoate



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N.A.

12.3. Bioaccumulation potential

Difenacoum

The active substance is hydrolytically stable and non-biodegradable, but easily photodegradable

Denantonium benzoate

In water: anaerobic degradation 10% after 30 days at 25 ° C all pH values

12.4. Mobility in soil

Information not available

12.5. Results of the PBT and vPvB evaluation

Difenacoum

log Pow active substance = 7.6 (calculated); high potential for bioaccumulation

Denantonium benzoate

LogPow=0,9

12.6. Other adverse effects

Information not available

13) DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of the product and empty container in accordance with current local regulations.

14) TRANSPORT INFORMATION

Not classified for transport in agreement with regulation RID/ADR, IMO/IMDG, ICAO/IATA.

Transport in bulk according to Annex II of Marpol 73/78 and the IBC code: not applicable.

15) REGULATORY INFORMATION

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

Directive 67/548/EC (Classification, packaging and labelling of dangerous substances) as subsequently amended;

Directive 99/45/EC (Classification, packaging and labelling of dangerous preparations) as subsequently amended;

Regulation no. 1907/2006/EC (REACH);

Regulation no. 1272/2008/EC (CLP);

Regulation no. 790/2009/EC (incorporating amendment, for the purpose of adjusting to technical and scientific progress, ATP

of Regulation no. 1272/2008/EC)

Directive 453/2010/EC

Directive 98/24/EC (protection of health and safety of workers from the risks related to chemical agents)

15.2 Chemical safety assessment

Not available

16) OTHER INFORMATION

Full text of R phrases used in paragraph 3:

R 20/22 Harmful by inhalation and if swallowed.

R 28 Harmful if swallowed

R 38 Irritating to skin

R 41 Risk of serious damage to eyes



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R50/53 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.

Full text of H phrases used in paragraph 3:

H300: Fatal if swallowed

H302: Harmful if ingested

H315 Irritates the skin

H318: Causes serious damage to eyes

H318: Causes serious eye damage

H400: Highly toxic to aquatic organisms

H410: Highly toxic to aquatic organisms with long-lasting effects

H412: Harmful to organisms with long-lasting effects

Information herein is based on our state of knowledge at the time given above. The information refers only to the product specified and should not be construed as guaranteeing certain qualities.

It is up to the user to ensure that this information is suitable and complete for the purpose of the specific use to which the user intends to put the product.