

DIFENACOUM 0,25%

Rev. June 2003

#### 1. <u>IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY</u>

1.1 Identification of the preparation: Difenacoum 0,25%

1.2 Use of the preparation: The preparation is used as raw material in the

formulation of rodenticide baits.

1.3 Company identification: ACTIVA S.r.l.

Viale Lombardia, 22 20131 Milano Phone 02/70637301 Fax 02/70637228

1.4 Emergency telephone: 02/70637301

#### 2. COMPOSITION

# The preparation contains:

Polyethylene glycols (not dangerous): as diluents Difenacoum (active ingredient): 0,25%

3-(3-biphenyl-4-yl-1,2,3,4-tetrahydro-1-naphthyl)-4-hydroxycoumarin N. CAS 56073-07-5 N. CEE 259-978-4 UE Index N. 607-157-00-X

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

#### 3. HAZARD IDENTIFICATION

In accordance with the CE classification principles, the preparation is classified as harmful if swallowed or in contact with skin

Health risks: The preparation is an anticoagulant and the risk is a

possible internal haemorrhage.

- Harmful if in contact with skin; it can be absorbed and

could cause the above mentioned damages.

- Harmful if swallowed; serious risk of internal haemorrhage.

Environment risks: Soil and water can be polluted.

### 4. <u>FIRST-AID MEASURES</u>

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.
Inhalation: Bring person to open air.



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Advice for the doctor: the preparation is an anticoagulant and its effects can persist for la ong 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 K: the medicine has to be given intramuscularly, only if alterations in the prothrombinic activity appear and not preventively.
- 2. In animals and particularly in pets, vitamin K 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. <u>FIRE-FIGHTING MEASURES</u>

Suitable extinguishing media: Halogenated gas, foam, chemical powders, CO<sub>2</sub>

 Extinguishing media which must not be used for safety reasons:
 Water

Special exposure hazards arising from the

substance or preparation itself,

combustion products, resulting gases: Toxic gas

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus and protective

clothing

#### 6. ACCIDENTAL-RELEASE MEASURES

Personal precautions:
 Environmental precautions:
 Wear suitable gloves, glasses and protective clothing.
 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 with adsorbent material, don't wash with

water.

7. HANDLING AND STORAGE

7.1 Handling: Use all the individual precautions provided to avoid

contact.

7.2 Storage: Keep container tightly closed in cool and dry places, far

from unauthorized people and far from foods.

7.3 Specific uses: ---

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Limit values for the exposition not being available it is advisable to follow these precautions:

Respiratory protection: Necessary in case of aerosol

Hand protection: Gloves for chemical products. Periodic

substitution.

Eye protection: Goggles for chemical products.

Skin protection: Protective clothes. Periodic substitution.

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



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### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General Information

Physical state: Liquid

Colour: Indicated on the label (it can be red or blue or without any

added colour)

Odour: Not perceptible **9.2 Important health, safety and the environmental information** 

pH: 7-9
Boiling point: 190° C
Flash point: > 120°C
Flammability: --Explosive properties: --Oxidising properties: --Vapour pressure: ---

Relative density: 1050-1150 g/l

Solubility:

- water solubility: Soluble

- fat solubility: Soluble in various organic solvents

Partition coefficient: n-octanol/water: --Viscosity: --Vapour density: --Evaporation rate: ---

#### 10. STABILITY AND REACTIVITY

10.1 Conditions to avoid: Exposure to high temperatures.

10.2 Materials to avoid: Strong oxidant agents.

10.3 Hazardous decomposition products: The thermic decomposition can produce toxic exhalations

(carbon dioxide).

### 11. TOXICOLOGICAL INFORMATION

• Oral toxicity: LD<sub>50</sub> acute oral rat of active ingredient: 1,8 mg/kg (WHO)

 $LD_{50}$  experimental for the present preparation: > 500 mg/kg (BIOLAB)

■ Acute dermal toxicity: LD<sub>50</sub> higher than 2000 mg/kg (BIOLAB)

• Inhalation toxicity: Not foreseen

Harmful effects: The preparation contains a substance with anticoagulant effects and may

cause internal haemorrhages, even delayed.

#### 12. ECOLOGICAL INFORMATION

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 n. 95/11601 Biolab).

- Algae\*: At the dosage of 10 mg/l there is no difference in the growing of the algae (Report n. 95/11600 Biolab).

- Daphnia\*:  $Cl_{50}$  is > 10 mg/l (Report no. 95/11599 Biolab) \*reports refer to "Concentrate 0,25%"

#### 12.2 Mobility

Absorption coefficient of the active ingredient is Koc > 398; 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 > 2000 (Study CH-14/96-B Chemservice)

#### 12.5 Other adverse effects

Not available



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<b>13.</b>	DISP	OSAL	CONSID	ERA	TIONS
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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 NOT APPLICABLE

Sea shipment IMDG NOT APPLICABLE

<u>Air shipment</u> IATA NOT APPLICABLE

#### 15. REGULATORY INFORMATION

EC labelling and classification

- Symbol: Xn

- R Phrases: R 22 Harmful if swallowed.

R 52/53 Harmful to aquatic organisms, may cause long-term

adverse effects in the aquatic environment.

- S Phrases: S 23 Do not breathe aerosols.

S 36/37 Wear suitable protective clothing and gloves S 45 In case of accident or if you feel unwell, seek

medical advice immediately (show the label

where possible).

S 60 This material and its container must be disposed of

as hazardous waste.

S 61 Avoid release to the environment. Refer to special

instructions/Safety data sheets.



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#### 16. OTHER INFORMATION

- # Complete text of the R Phrases indicated in Section 2:
  - R 28 Very toxic if swallowed
  - R 48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.
  - R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- # N.B. On request, the preparation can contain 0,5% Bitrex® (denatonium benzoate) as a "repulsive agent" in order to prevent accidental ingestion of the finished baits (Directive 98/8/CE art. 20 2-b).
- # Bibliography: The Pesticide Manual 12th Ed.
  - ANTICOAGULANTS RODENTICIDE Envir. Health Criteria 175 W.H.O. Geneva 1995
  - Reports from "BiolabSpA"- Vimodrone (MILANO)
  - "The WHO recommended classification of pesticide..." WHO/PCS/96.3
  - ChemService Studies, Novate Milanese, Milano
- # Updating:

This sheet was updated according to the regulations in force (see date on the upper right part of each page).

Changes and/or additions to the previous sheet are indicated by the symbol #.

Sheet and safety data in accordance with Directive 2001/58/CE.

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 editions