

Safety Data Sheet

according to 1907/2006/EC Regulation

Printing date 28.09.2009

Revision: 28.09.2009

1 Identification of the substance/preparation and of the company/undertaking





- **Product details**
- **Trade name:** BONIRAT PASTA
- **Sds code/version:** 0/09
- **Application of the substance / the preparation** Rodenticide
- **Manufacturer/Supplier:**
Zapi Industrie Chimiche S.p.A.
Via Terza Strada, 12
35026 Conselve (Pd)
Italy
Tel. +39 049 9597785 Fax +39 049 9597789
E-mail address of the competent person responsible for the SDS: techdept@zapi.it
- **Further information obtainable from:** Tech. dept.
- **Information in case of emergency:**
Tel +39 049 9597700
Italian Poison Control Centre (Milan) +39 02 66101029

2 Hazards identification

- **Hazard description:** Not dangerous product
- **Information concerning particular hazards for human and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
To avoid risks to man and the environment, comply with the instructions for use.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of substances listed below with nonhazardous additions.

| - Dangerous components: | | | |
|--------------------------------------|---------------------|---|--------|
| CAS: 56073-07-5 EINECS: 259-978-4 | difenacoum |  T+,  N; R 28-48/25-50/53 | 0.005% |
| CAS: 3734-33-6 EINECS: 223-095-2 | denatonium benzoate |  Xn,  Xi; R 20/22-38-41-52/53 | 0.001% |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.
- **Information for doctor:**
Serious poisoning if swallowed, inhibition of vitamin K, cutaneous and mucosal haemorrhages. Symptomatology of other systems or apparatus is mainly haemorrhagic.

In case of ingestion of huge quantities of product induce vomit, make gastric washout, control prothrombin activity and in case it decreases, administer vitamin K. Anticoagulants are contraindicated.

- **Treatment** Administer Vitamin K.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

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- **Measures for cleaning/collecting:** Pick up mechanically.
- **Additional information:** No dangerous substances are released.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
 - Protect from frost.
 - Protect from heat and direct sunlight.
 - Store under lock and key and out of the reach of children.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Keep away from food, drink and animal feedingstuffs.
- **Respiratory protection:** Not required.
- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

9 Physical and chemical properties

| | |
|--|---|
| - General Information | |
| Form: | Solid |
| Colour: | Red |
| Odour: | Characteristic |
| - Change in condition | |
| Melting point/Melting range: | Undetermined. |
| - Flash point: | Not applicable. |
| - Self-igniting: | Product is not selfigniting. |
| - Danger of explosion: | Product does not present an explosion hazard. |
| - Density: | Not determined. |
| - Solubility in / Miscibility with water: | Insoluble. |
| - Solvent content: | |
| Organic solvents: | 0.0 % |

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| | |
|-------------------|---------|
| - Solids content: | 100.0 % |
|-------------------|---------|

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:

| | | |
|--|---------|--|
| - LD/LC50 values relevant for classification: | | |
| 56073-07-5 difenacoum | | |
| Oral | LD50 | 1.8 mg/kg (rat) male rat |
| | | 2 mg/kg (rabbit) |
| Dermal | LD50 | 1000 mg/kg (rabbit) |
| 3734-33-6 denatonium benzoate | | |
| Oral | LD50 | 749 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rat) |
| Inhalative | LC50/4h | 0.2 mg/l (rat) |
| BONIRAT | | |
| Oral | LD50 | >2500 mg/kg (rat) female rat - OECD method n. 423 |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

12 Ecological information

- Ecotoxicological effects:

| | | |
|------------------------------|-----------|---------------------|
| - Aquatic toxicity: | | |
| 56073-07-5 difenacoum | | |
| LC50/48h | 0.52 mg/l | (daphnia) |
| LC50/96h | 0.10 mg/l | (rainbow trout) |
| - Other information: | | |
| 56073-07-5 difenacoum | | |
| Oral | LD50 | >50 mg/kg (chicken) |

- General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

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14 Transport information

| |
|---|
| - Land transport ADR/RID (cross-border) - ADR/RID class: - |
| - Maritime transport IMDG: - IMDG Class: - |
| - Air transport ICAO-TI and IATA-DGR: - ICAO/IATA Class: - |

15 Regulatory information

- Labelling according to EU guidelines:

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

- Safety phrases:

1/2 Keep locked up and out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20/21 When using do not eat, drink or smoke.

24/25 Avoid contact with skin and eyes.

28 After contact with skin, wash immediately with plenty of ... (to be specified by the manufacturer).

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

46 If swallowed, seek medical advice immediately and show this container or label.

49 Keep only in the original container.

- Special labelling of certain preparations:

To avoid risks to man and the environment, comply with the instructions for use.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant R-phrases

20/22 Harmful by inhalation and if swallowed.

28 Very toxic if swallowed.

38 Irritating to skin.

41 Risk of serious damage to eyes.

48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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

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

- Sources

1. 1999/45/EC Directive, 2006/8/EC Directive and following amendments

2. 67/548/EEC Directive and following amendments

3. 91/155/EEC Directive and following amendments

4. The Merck Index Ed. 10

5. The E-Pesticide Manual 2.1 Version (2001)

6. Regulation (EC) No. 1907/2006 and following amendments