

מדינת ישראל

אגף לבקרת חומרי הדברה ומזיקים

המשרד להגנת הסביבה

טל : 02-6495882, פקס : 02-6495854

רח' כנפי נשרים 5, ת"ד 34033, ירושלים 95464

תעודת רישום

בתוקף סמכותי לפי תקנה 10 לתקנות החומרים המסוכנים (רישום תכשירים להדברת מזיקים לאדם), התשנ"ד 1994 אני נותנת בזה תעודת רישום, ומתנה את הרישום בתנאים כמפורט להלן:

שם התכשיר : **ברודיטופ פסטה לתברואה**

שם בעל תעודת הרישום : תפוזל תעשיות כימיות בע"מ

מען בעל תעודת הרישום : הסוללה 1 אזור תעשייה מערבי, בית שמש 9905200

מספר הרישום : 423

תוקף הרישום מ : 30/11/2015

תוקף הרישום עד : 30/11/2021

החומרים הפעילים בתכשיר :

brodifacoum- 0.005 %

פרטי התכשיר :

התכשיר מיועד להשמדה של המזיקים הבאים : חולדות ועכברים .

סוג התוארית (פורמולציה) : פיתיון מוכן לשימוש בצורת פסטה

תנאים כלליים :

רישום התכשיר מותנה ב :

1. קיום כל הפרטים שצוינו בבקשה לרישום (מס' 474), על נספחיה.
2. קיום כל הפרטים המופיעים על תווית התכשיר המקורית שנמסרה לממונה.
3. קיום היתר רעלים מכוח חוק החומרים המסוכנים, התשנ"ג - 1993.
4. אין למכור תכשיר זה למי שאיננו בעל היתר רעלים ו/או היתר הדברה בתוקף מאת המשרד להגנת הסביבה.
5. השימוש והיישום של התכשיר מותרים לבעלי היתר הדברה למכרסמים בלבד.



ד"ר שגיא גבריאל
הממונה

30/08/2015

תאריך

Safety data sheet

according to Regulation (EU) No 453/2010

Printing date 16.05.2011

Revision: 16.05.2011

* 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name: BRODITOP PASTA**
- **Sds code/version:** 01/11
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Rodenticide
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Zapi S.p.A.
Via Terza Strada, 12
35026 Conselve (Pd)
Italy
Tel. +39 049 9597737 Fax +39 049 9597735
customer.service@zapi.it - www.zapi.it
E-mail address of the competent person responsible for the SDS: techdept@zapi.it
- **Further information obtainable from:** Tech. dept.
- **Emergency telephone number:**
Italian Poison Control Centre (Milan) +39 02 66101029
Zapi customer service: tel. +39 049 9597737 (9:00-12:00/14:00-17:00)

* 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
The product is not classified according to Directive 1999/45/EC
- **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.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **Label elements**
- **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.
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.
Keep out of the reach of children
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

* 3 Composition/information on ingredients

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

(Contd. on page 2)

Safety data sheet

according to Regulation (EU) No 453/2010

Printing date 16.05.2011

Trade name: **BRODITOP PASTA**

Revision: 16.05.2011

- Dangerous components:		(Contd. of page 1)
CAS: 56073-10-0 EINECS: 259-980-5	brodifacoum ■ T+ R27/28; ■ T R48/24/25; ■ N R50/53 ◆ Acute Tox. 2, H300; Acute Tox. 1, H310; ◆ STOT RE 1, H372; ◆ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.005%
CAS: 3734-33-6 EINECS: 223-095-2	denatonium benzoate ■ Xn R20/22; ■ Xi R38-41 R52/53 ◆ Acute Tox. 2, H330; ◆ Eye Dam. 1, H318; ◆ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	0.001%

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

4 First aid measures

- Description of first aid measures

- **General information:** No special measures required.

- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Wash with water and acidic soap.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** Show the container, label or the safety data sheet of the product.

- Information for doctor:

Serious poisoning if swallowed, inhibition of vitamin K, cutaneous and mucosal haemorrhages. Symptomatology of other systems or apparatus is mainly haemorrhagic.

- **Indication of any immediate medical attention and special treatment needed** Administer Vitamin K.

5 Firefighting measures

- Extinguishing media

- Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Special hazards arising from the substance or mixture** No further relevant information available.

- Advice for firefighters

- **Protective equipment:** No special measures required.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:** Pick up mechanically.

- Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

* 7 Handling and storage

- Handling:

- **Precautions for safe handling** No special measures required.

- **Information about fire - and explosion protection:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- 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.

Store under lock and key and out of the reach of children.

- **Specific end use(s)** No further relevant information available.

(Contd. on page 3)

Printing date 16.05.2011

Trade name: **BRODITOP PASTA**

Revision: 16.05.2011

8 Exposure controls/personal protection

(Contd. of page 2)

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**
- **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.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from food, drink and animal feedingstuffs.
Do not eat or drink while working.
- **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

- Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	Solid
Colour:	Blue
- Odour:	Characteristic
- Odour threshold:	Not determined.
- pH-value:	Not applicable.
- Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
- Flash point:	Not applicable.
- Flammability (solid, gaseous):	Not determined.
- Ignition temperature:	
Decomposition temperature:	Not determined.
- Self-igniting:	Product is not selfigniting.
- Danger of explosion:	Product does not present an explosion hazard.
- Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
- Vapour pressure:	Not applicable.
- Density:	Not determined.
- Relative density	Not determined.
- Vapour density	Not applicable.

(Contd. on page 4)

Safety data sheet
according to Regulation (EU) No 453/2010

Printing date 16.05.2011

Trade name: **BRODITOP PASTA**

Revision: 16.05.2011

- Evaporation rate	Not applicable.	(Contd. of page 3)
- Solubility in / Miscibility with water:	Insoluble.	
- Segregation coefficient (n-octanol/water):	Not determined.	
- Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
- Solvent content: Organic solvents: VOC (EC)	0.0 % 0.00 %	
- Solids content:	100.0 %	
- Other information	No further relevant information available.	

10 Stability and reactivity

- Reactivity
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

***11 Toxicological information**

- Information on toxicological effects
- Acute toxicity:

- LD/LC50 values relevant for classification:		
56073-10-0 brodifacoum		
Oral	LD50	0.4 mg/kg (rat) male rat 0.2 mg/kg (rabbit) male rabbit
Dermal	LD50	0.25-0.63 mg/kg (rat)
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)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- 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

- Toxicity

- Aquatic toxicity:	
56073-10-0 brodifacoum	
LC50/96h	0.165 mg/l (bluegill sunfish) 0.051 mg/l (rainbow trout)
- Persistence and degradability No further relevant information available.	

(Contd. on page 5)

Safety data sheet

according to Regulation (EU) No 453/2010

Printing date 16.05.2011

Revision: 16.05.2011

Trade name: **BRODITOP PASTA**

- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**

(Contd. of page 4)

- Other information:		
56073-10-0 brodifacoum		
Oral	LD50	4.5 mg/kg (chicken)
		0.31 mg/kg (mallard duck)
		11.6 mg/kg (japanese quail)

- **Additional ecological information:**

- **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.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **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.

*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:** -

- **UN "Model Regulation":** -

- **Special precautions for user** Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

*15 Regulatory information

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

*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 phrases**

H300	Fatal if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
R20/22	Harmful by inhalation and if swallowed.
R27/28	Very toxic in contact with skin and if swallowed.
R38	Irritating to skin.

(Contd. on page 6)

Page 6/6

Safety data sheet
according to Regulation (EU) No 453/2010

Printing date 16.05.2011

Revision: 16.05.2011

Trade name: BRODITOP PASTA

(Contd. of page 5)

- R41 Risk of serious damage to eyes.
R48/24/25 Toxic; danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

- 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

- * Data compared to the previous version altered.