

# MATERIAL SAFETY DATA SHEET

according to Regulation (EC) no. 1907/2006  
(amended by EC Reg. No. 830/2015)


Issued: 20.10.2017 Valid from: 20.10.2017 Revised: 06/2018  
Version: 06/2018 Replaces version: 10/2017 Page 1 of 8

## **Ratron® Wheat Bait 29 ppm**

### **1. PRODUCT NAME AND COMPANY**

- 1.1 Product identifier:**
- 1.1.1 Trade name:**  
Ratron® Wheat Bait 29 ppm
- 1.1.2 Article number:**  
2401-207 / -256
- 1.1.3 Use:**  
Rodenticide bait for the control of rats and house mice (detailed statements see section 7.3 and product information).
- 1.2 Producer / Supplier:**  
**frunol delicia® GmbH**
- 1.2.1 Address:**
- |                            |                            |
|----------------------------|----------------------------|
| <u>Main office:</u>        | <u>Branch office:</u>      |
| Duebener Strasse 145       | Hansastraße 74 b           |
| 04509 Delitzsch            | 59425 Unna                 |
| Germany                    | Germany                    |
| Tel.: +49 (0)34202 / 65300 | Tel.: +49 (0)2303 / 253600 |
| Fax: +49 (0)34202 / 65309  | Fax: +49 (0)2303 / 2536050 |
- 1.2.2 E-mail:**  
info@frunol-delicia.de
- 1.2.3 Informing department:**  
Lab department, Tel.: +49 (0)34202 / 65341
- 1.3 Emergency contact:**  
Dr. H. Knipp  
Tel.: +49 (0)3 42 02 / 6 53 00 Fax: +49 (0)3 42 02 / 6 53 09

### **2. HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
Classification acc. to the regulation (EC) no. 1272/2008 (CLP):  
Danger categories: STOT RE 2 (blood)  
Hazard statements\*: H373
- 2.2 Label elements:**  
Signal word: Warning  
Hazard pictograms:  GHS08
- Hazardous components which must be listed on the label:  
Brodifacoum  
Hazard statements\*: H373  
Precautionary statements\*: P101, P102, P103, P270, P280, P301/310, P405  
Other statements:  
EUH401 – To avoid risks to human health and the environment, comply with the instructions for use
- 2.3 Other hazards:**  
-

\* wording see section 16.

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#### **3. COMPOSITION / INFORMATION ON INGREDIENTS**

##### **3.1 Substances:**

This product is a mixture.

##### **3.2 Ingredients:**

- |                |   |  |
|----------------|---|--|
| <b>3.2.1</b>   | <b>Substance denomination:</b>                        | Brodifacoum  |
| <b>3.2.1.1</b> | <b>EC-Nr.:</b>  | 259-980-5  |
| <b>3.2.1.2</b> | <b>CAS-Nr.:</b>                                       | 56073-10-0   |
| <b>3.2.1.3</b> | <b>Proportion:</b>                                    | 0,0029 % w/w   |
| <b>3.2.1.4</b> | <b>Class. acc. to reg. (EC) no. 1272/2008:</b>        | H300, H310, H330, H360D, H372, H400, H410                                    |
| <b>3.2.1.5</b> | <b>Signal word:</b>                                   | Danger   |
| <b>3.2.1.6</b> | <b>Danger denominations:</b>                          | Acute Tox. 1, Repr. 1A, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 1 (M=10) |
| <b>3.2.7</b>   | <b>Substances with mandatory EC thresholds (WEL):</b> |  |
|                |   | Propane-1,2-diol (1 – 5%), see also section 8.2.                             |

*(The wording of the mentioned danger advices is to be read in section 16)*

#### **4. FIRST AID MEASURES**

##### **4.1 General advices:**

Remove to fresh air. Remove contaminated clothes.

##### **4.2 After inhalation:**

Remove to fresh air, keep respiratory tract free.

##### **4.3 After skin contact:**

After contact with skin, wash immediately with plenty of water and soap.

##### **4.4 After eye contact:**

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice.

##### **4.5 After swallowing:**

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

##### **4.6 Antidote:**

Vitamin K<sub>1</sub>, to be applied by medical/veterinary personal only.

##### **4.7 Advices for the physician:**

Treatment according to Coumarin poisonings.

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

**5.1 Extinguishing media:**

**5.1.1 Suited:**

Powder, foam, CO<sub>2</sub>, water

**5.1.2 Not suited:**

-

**5.2 Special dangers by the agent, its combustion residues or formed gases:**

-

**5.3 Advices for fire-fighting:**

Stay in the danger zone with self-contained breathing apparatus only, in emergency cases wear respiratory mask with filter AB-P. Cool endangered containers from safe distance and condense exhausting vapours with water. Avoid intrusion of fire water into surface- and ground waters and soil.

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

**6.1 Personal protective measures:**

Wear protective gloves.

**6.2 Environmental protective measures:**

Do not let get into waters or canalisation.

**6.3 Methods of absorption:**

Sweep up and collect in suited bins (special waste).

**6.4 Additional advices:**

Pay attention to the protective measures in sections 7 and 8.

#### **7. HANDLING AND STORAGE**

**7.1 Handling:**

**7.1.1 Secure handling:**

To avoid risks for human and environment follow the instructions for use. Avoid all unnecessary contact with the agent. Misuse may lead to damages to health. Keep away domestic animals. Technical and organisatoric protective measures must be used preferred (personal protective equipment may not be a permanent measure).

**7.1.2 Advices for fire and explosion safety:**

-

**7.2 Storage:**

**7.2.1 Storage temperature:**

-

**7.2.2 Storage restrictions:**

Take care for dry and well ventilated rooms. Store cool, dry and in the closed original container. Keep locked up.

**7.2.3 Storage advices with other products:**

Keep away from acids or acidic products. Keep away from food, drink and animal feeding stuffs.

**7.2.4 Additional advices:**

Keep out of reach of children. Storage class see section 15.

**7.3 Specific end uses:**

For the control of rats and house mice in buildings, stables and outdoor (surrounding of buildings) at need by professional users. Do not apply on agricultural land or in forestry. Usage against brown rat in canalisation see product information (usage here by examined pest controllers only). Apply covered due to poisoning danger of children and pets, bait boxes (mice) or bait stations (rats) are recommended. Avoid avulsion into canalisation or waters. To protect humans and environment collect product residues and animal carcasses and dispose of properly.

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

- 8.1 Additional advices for technical plants:**  
-
- 8.2 Limited value of plant:**  
Propane-1,2-diol (CAS 57-55-6), DNEL (inhalative) 10 mg/m<sup>3</sup>
- 8.3 Personal protective equipment:**
- 8.3.1 General hygienic and protection measures:**  
Avoid contact with skin (see also section 8.3.3), pay attention to new PSA directive (risk category II).
- 8.3.2 Breath:**  
-
- 8.3.3 Hand:**  
Wear suited protective gloves at handling. At usage wear protective gloves CE cat. II or III (nitrile, nitrile coating or vinyl, layer thickness min. 0.4 mm, maximal wearing period 480 min.) Chemical protective gloves may be worn longer than 4 hours only exceptional. Regularly wearing of protective gloves longer than 2 hours already oblige the employer to offer employment medical examinations. E.g.: Protective glove "Camatril Velours 730" from company KCL. At reuse clean protective gloves with water and soap, dispose contaminated protective gloves as well as used washing liquid as special waste. At disposal of carcasses wear protective gloves as rodents may transfer diseases (e.g. leptospirosis).
- 8.3.4 Eye:**  
-
- 8.3.5 Body:**  
-
- 8.4 Limitation of environmental exposition:**  
See sections 6 and 7.

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

- 9.1 General statements**
- 9.1.1 Form:** Granule
- 9.1.2 Dye:** Red
- 9.1.3 Odor:** Nearly odourless
- 9.2 Safety related statements**
- |  |           | Method / remarks     |
|--|-----------|----------------------|
| <b>9.2.1 Melting point / range:</b>                  |           | °C                   |
| <b>9.2.2 Boiling point / range:</b>                  |           | °C                   |
| <b>9.2.3 Flash point:</b>                            |           | °C                   |
| <b>9.2.4 Ignition point:</b>                         |           | °C                   |
| <b>9.2.5 Explosion limit, lower:</b>                 |           | Vol.-%               |
| <b>9.2.6 Explosion limit, upper:</b>                 |           | Vol.-%               |
| <b>9.2.7 Vapour pressure (20°C):</b>                 |           | hPa                  |
| <b>9.2.8 Vapour pressure: (25°C):</b>                |           | hPa                  |
| <b>9.2.9 Density (20°C):</b>                         |           | g/ml                 |
| <b>9.2.10 Bulk density (20°C):</b>                   | 1.19      | kg/l (CIPAC MT 186)  |
| <b>9.2.11 Solubility in water (20°C):</b>            | Insoluble | g/l                  |
| <b>9.2.12 Solubility in organic solvents (20°C):</b> |           | g/l                  |
| <b>9.2.13 pH-value in original ( °C):</b>            |           |                      |
| <b>9.2.14 pH-value in 10 g/l of water (20°C):</b>    | 6.61      | (CIPAC MT 75.3)      |
| <b>9.2.15 Partition coefficient (log Po/w):</b>      |           |                      |
| <b>9.2.16 Viscosity (20°C):</b>                      |           | mm <sup>2</sup> /sec |
| <b>9.2.17 Content of solvents:</b>                   |           | % w/w                |
| <b>9.2.18 Additional information:</b>                |           |                      |

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#### **10. STABILITY AND REACTIVITY:**

- 10.1** *Reactivity:*  
-
- 10.2** *Chemical stability:*  
2 years from production date.
- 10.3** *Possible dangerous reactions:*  
-
- 10.4** *Conditions to avoid:*  
-
- 10.5** *Incompatible materials:*  
-
- 10.6** *Hazardous decomposition products:*  
-

#### **11. TOXICOLOGICAL INFORMATION**

- 11.1** *Acute toxicity:*  
LD<sub>50</sub> (rat, oral) > 2,000 mg/kg body weight – calculated
- 11.2** *Sub acute toxicity:*  
-
- 11.3** *Primary irritation:*
- 11.3.1** *Skin:*  
None
- 11.3.2** *Eye:*  
None
- 11.4** *Sensitization:*  
Criteria for classification are not fulfilled.
- 11.5** *Chronical effects:*  
No evidences of carcinogenic, mutagenic, teratogenic or other harmful effects at long-term exposition.
- 11.6** *Additional advices:*  
May harm blood at longer exposition.

#### **12. ECOLOGICAL INFORMATION**

- 12.1** *Ecotox effects:*
- 12.1.1** *Aquatic toxicity:*  
Toxic to fish and fish nutrition animals
- 12.1.2** *Toxicity to bees:*  
Not toxic to bees
- 12.2** *Elimination (persistence and degradation):*  
-
- 12.3** *Hazard to waters:*  
WHC 1 (own classification)
- 12.4** *Additional advices:*  
Do not let get the agent and its residues as well as emptied bins and containers into waters.

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#### **13. DISPOSAL CONSIDERATIONS**

**13.1 Procedures of waste treatment:**

**13.1.1 Product:**

Special waste, pay attention to the national and regional regulations.

**13.1.2 Uncleaned packages:**

Special waste, pay attention to the national and regional regulations.

#### **14. TRANSPORT INFORMATION**

*Land transport (ADR/RID)*

*Sea transport (IMDG)*

*Air transport (IATA, ICAO)*

Non dangerous good

Non dangerous good

Non dangerous good

#### **15. REGULATORY INFORMATION**

**15.1 EU regulation (EC) no. 1272/2008 (CLP):**

**15.1.1 Danger categories:**

STOT RE 2 (blood)



**15.1.2 H-statements:**

H373 (wording see section 16).

**15.1.3 P-statements:**

P101, P102, P103, P270, P280, P301/310, P405 (wording see section 16)

**15.1.4 Additional information:**

EUH401 (wording see section 16)

**15.2 National regulations (Germany):**

**15.2.1 TRGS:**

See 15.2.6

**15.2.2 Water hazard class:**

1 (own classification)

**15.2.3 VCI-Storage class:**

11

**15.2.4 Health & Safety at Work regulations:**

Pay attention to PSA directive (see also section 8.3.1)

**15.2.5 VOC-content:**

-

**15.2.6 Further advices:**

The rules of TRGS 401 and TRGS 523 are to be followed; the directive 2000/54/EC as well as the TRBA 230 and TRBA 500 and the leaflet of vocational disease no. 3102 are to be considered.

**15.3 Occupation limitation:**

**15.3.1 Youth protection:**

Pay attention to the occupation limitations for adolescents (§ 22 JArbSchG).

**15.3.2 Maternity protection:**

Maternity protection law, pay attention to the occupation limitations (§§ 3,4 MuSchG).

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### **16. OTHER INFORMATION**

#### WORDING DANGER REFERENCES AND SAFETY ADVICES:

#### 2. POTENTIAL DANGERS AND 15.1 LABELING BY EU-REGULATIONS

H373 May cause damages to organs through prolonged or repeated exposure  
EUH401 To avoid risks to human health and the environment, comply with the instructions for use

#### 3. COMPOSITION / MARKS ABOUT THE INGREDIENTS

**Dangerous ingred.:** Brodifacoum  
H300 Fatal if swallowed  
H310 Fatal in contact with skin  
H330 Fatal if inhaled  
H360D May damage the unborn child  
H372 Causes damages to organs through prolonged or repeated exposure  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects

#### 2. AND 15.1 LABELING BY EC REGULATION NO. 1272/2008

P101 If medical advice is needed, have product container or label at hand  
P102 Keep out of reach of children  
P103 Read label before use  
P270 Do no eat, drink or smoke when using this product  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P405 Store locked up

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#### **16. OTHER INFORMATION (CONTINUATION)**

Specific product advices:

Handling / Application of the product in accordance with the instructions for use of the manufacturer only. Misuse may lead to damages to health. The product does not contain any SVHC substances of the REACH regulation (EC) no. 1907/2006.

Product type: PT 14 (rodenticides)

Biocidal reg.-no.: DE-0018327-14

Generic Exposure Scenarios (GES)

End uses

- a) Hygiene areas – professional (SU 22)

Product category: PC 8 (Biocides - rodenticides)

Environmental Release Categories (ERC):

Wide disperse indoor use of long-life articles and materials with low release (ERC 10a). Release by discharge in buildings and surrounding of buildings.

Sources for preparation of this Material Safety Data Sheet:

REACH-regulation 1907/2006 Article 31, regulation (EC) no. 1272/2008 (CLP regulation), Regulation (EC) no. 830/2015, MSDS of the components.

These information are based on actual state of our knowledge, they are not a guarantee of our product qualities and involve no contractual relationship.