



MATERIAL SAFETY DATA SHEET

TOXAN® GRANULAT in

accordance with Commission Regulation (EU) No 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product ID

Trade name: TOXAN® GRANULAT

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Rodenticide

(anticoagulant) - ready-to-use granular bait intended to control mice and rats.

Uses advised against:

All other uses than those mentioned above.

1.3. Details of the supplier of the safety data sheet

Producer: „FREGATA” SA

Address: ul. Grunwaldzka 497, 80-309 Gdańsk

Telephone/Fax: (58) 552-00-27 to 29 / (58) 552-48-31 E-mail:

fregata@fregata.gda.pl E-mail of the

person responsible for the safety data sheet: k.nowakowski@fregata.gda.pl

1.4. Emergency telephone number

Gdansk – (58) 682-04-04 Krakow – (12) 411 99 99

Poznan – (61) 847 69 46 Warsaw – 607 218 174

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the substance or mixture

Classification of the mixture according to Regulation (EC) No 1272/2008:

Reproductive toxicity - Category 1B - **H360D**

Specific target organ toxicity – repeated exposure, category 2 – **H373**

2.2. Labeling elements

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictogram indicating the type of hazard:



Signal word: Danger Hazard statements: H360D

May damage the unborn child.

H373 May cause damage to organs (blood) through prolonged or repeated exposure.

Safety phrases: P102 Keep out of reach of children.

P280 Wear protective gloves.

2.3. Other threats

The preparation may be harmful to humans and non-target organisms if consumed in large quantities.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable.



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3.2. Mixtures

NAME	NR CAS / WE NR REACH	CONCENTRATION [%]	CLASSIFICATION
			Regulation 1272/2008
Bromadiolon	28772-56-7/249-205-9 <i>substance considered to be registered (REACH - Article 15)</i>	0,004	Repr. 1B; H360D Acute Tox. 1; H330, H310, H300 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

The full text of the hazard statements is given in section 16 of the card.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation exposure: In case of _____
inhalation exposure, if disturbing symptoms occur, seek medical advice.

Skin contact: In case of skin contamination, wash the affected area thoroughly with soap and water.

Eye contact: In case of eye contamination, rinse with plenty of water.

Ingestion: If swallowed or if disturbing _____
symptoms occur (e.g. weakness or bleeding), seek medical advice.

4.2. Most important acute and delayed symptoms and effects of exposure

The product may be harmful to humans and non-target organisms if ingested in large quantities. The active ingredient bromadiolone contained in the product is a single-dose anticoagulant. The mechanism of action of active substances from the anticoagulant group involves reducing blood clotting by preventing the production of prothrombin.

4.3. Indications for any immediate medical attention and special treatment of the injured person

Bromadiolone is an indirect anticoagulant. **Antidote:** vitamin K1 administered under medical supervision. Determine prothrombin time no earlier than 18 hours after ingestion. If elevated, administer vitamin K1 until prothrombin time normalizes. Continue prothrombin time monitoring for two weeks after discontinuing the antidote and resume treatment if it increases during this time.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:
Carbon dioxide, foam, extinguishing powder, water spray.

Unsuitable extinguishing media:
Direct water jet.

5.2. Special hazards arising from the substance or mixture

Combustion products may be inorganic compounds characteristic of the complete and incomplete combustion of organic compounds: carbon oxides and dioxides.

5.3. Information for the fire brigade

A breathing apparatus to protect against fumes and appropriate gloves and boots.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Personal protective equipment -
section 8 of the card.



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For those providing assistance:

Personal protective equipment - section 8 of the card..

6.2. Environmental precautions

Do not allow the product to accidentally release into the environment.

6.3. Methods and materials for containment and removal of contamination

Collect mechanically into sealed, labeled containers. If use is impossible, dispose of the waste. Waste disposal instructions – see section 13 of the card.

6.4. References to other sections

Personal protective equipment – section 8 of the card.

Waste management – section 13 of the card.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES**7.1. Precautions for safe handling**

Use the product only for its intended purpose, in accordance with the label recommendations. Wear protective gloves. Wash your hands with soap and water before and after applying the product. Avoid contact with the mouth (very bitter taste). Do not eat, drink, or smoke while using the product. Keep the product out of reach of children, birds, and non-target organisms (dogs, cats, pigs, poultry, etc.).

7.2. Conditions for safe storage, including information on any incompatibilities

Store the product in its original packaging, at room temperature, in a dry place, out of reach of children and animals. Protect from direct sunlight and moisture. Keep away from food, beverages, and animal feed. Do not store the product with chemicals that could alter the product's attractive scent to rodents.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control Parameters**

No data available.

8.2. Exposure ControlTechnical control measures used:

No recommendations.

Individual protective measures, such as personal protective equipment:

Eye or face protection:

No special protection is required.

Skin protection:

Wear appropriate protective gloves (rubber). Wash hands with soap and water after working with the product.

Respiratory protection:

No special protection is required.

Thermal hazards:

No special protection is required.

Environmental exposure control:

Do not allow the product to accidentally release into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

a)

Appearance:

b) Odor: c) Odor

light pink granulate

characteristic cereal

not marked

approx. 5.9 (1% aqueous suspension)

not applicable

threshold: d) pH: e) Melting/freezing point:



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f) Initial boiling point and boiling range:	not applicable
g) Flash point:	not applicable
h) Evaporation rate:	not applicable
i) Flammability (solid, gas):	not highly flammable
j) Upper/lower flammability limit or upper/lower explosive limit:	not determined
k) Vapour pressure:	not applicable
l) Vapour density:	not applicable
m) Relative density:	0.59 g/ml (loose bulk density)
n) Solubility:	not applicable
o) Partition coefficient n-octanol/water:	not applicable
p) Auto-ignition temperature:	does not spontaneously ignite up to 400°C
q) Decomposition temperature:	not marked
r) Viscosity:	not applicable
s) Explosive properties:	does not have explosive properties
t) Oxidizing properties:	does not have oxidizing properties

9.2. Other information

No other information available.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No information on reactivity hazards.

10.2. Chemical stability

The mixture is stable under the storage conditions specified in section 7 of the card.

10.3. Possibility of hazardous reactions

No information on the possibility of hazardous reactions.

10.4. Conditions to Avoid

No information on conditions that could lead to hazardous reactions

10.5. Incompatible Materials

Lack

10.6. Hazardous decomposition products

No information on hazardous decomposition products. The mixture is stable under the storage conditions specified in section 7 of the safety data sheet.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxicological studies were not conducted for the product. The toxicological assessment of the product was based on toxicological data for the active ingredient bromadiolone, using appropriate extrapolation. The preparation may be harmful to humans and non-target organisms if ingested in large quantities.

a) Acute toxicity:

Product (extrapolated value):

Acute oral toxicity (rat) LD50 = 14.0 – 21.0 g/kg bw (females)

Acute dermal toxicity (rabbit) LD50 = 42.75 g/kg bw (males and females)

Acute inhalation toxicity (rat) LC50 = 10.75 mg/l (male and female)

b) Skin corrosion/irritation:

Product: non-irritating.

c) Serious eye damage/eye irritation:

Product: non-irritating.

d) Respiratory or skin sensitisation:

Product: does not cause skin sensitization.

Release date: 12/2001

Updated: 08.2018

Version: 9



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e) Germ cell mutagenicity: The product is not classified as dangerous in this hazard class.

f) Carcinogenicity:

The product is not classified as dangerous in this hazard class.

g) Reproductive toxicity: May cause harm to the unborn child.

h) Specific target organ toxicity – single exposure: The product is not classified as hazardous in this hazard class.

i) Specific target organ toxicity – repeated exposure: May cause damage to organs (blood) through prolonged or repeated exposure.

j) aspiration hazard: The product is not classified as hazardous in this hazard class.

Information on likely routes of exposure: No information is

available on specific health effects from ingestion, inhalation, or skin/eye contact. The product may be harmful to humans and non-target animals if ingested in large quantities.

Symptoms related to the physical, chemical and toxicological properties: The preparation may be harmful to humans and non-target organisms if ingested in large quantities.

Delayed, immediate and chronic effects from short and long-term exposure: No data available.

Interaction effects: No data available.

No specific data: No data on similar substances or mixtures were used.

Mixture information vs. substance information: No data available.

Other information:

No other data available.

SECTION 12: ECOLOGICAL INFORMATION

The product is not classified as environmentally hazardous. Ecotoxicological studies have not been conducted for the product. The ecotoxicological assessment of the product was based on ecotoxicological data for the active ingredient bromadiolone, using appropriate extrapolation. The product may be harmful to non-target organisms if ingested in large quantities. Protect the product from contact with birds and non-target organisms (dogs, cats, pigs, poultry, etc.). Prevent accidental release of the product into the environment.

12.1. Toxicity

Product (extrapolated values):

Fish toxicity:

Rainbow trout (*Oncorhynchus mykiss*): LC50 (96 h) = 71.5 g/l

Toxicity to daphnia:

Daphnia magna: EC50 (48 h) = 144,75 g/l

Toxicity to algae:

Pseudokirchneriella subcapitata: ErC50 (72 h) = 28.5 g/L



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12.2. Persistence and degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other harmful effects

Lack.

SECTION 13: WASTE CONSIDERATIONS

13.1. Waste disposal methods

Product packaging, product residue after use (including bait found outside the feeder) closed in a labeled container, damp and contaminated bait, and dead rodents must be disposed of safely and in accordance with current regulations (e.g., disposed of at authorized companies). Product packaging is not intended for recycling. Do not reuse used packaging.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packaging group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for users

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations specific to the substance or mixture

1. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
3. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011, No. 63, item 322)
4. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classification of substances and their mixtures (Journal of Laws of 2012, item 1018).
5. Regulation of the Minister of Health of 20 April 2012 on the labelling of packaging of hazardous substances and hazardous mixtures and certain mixtures (Journal of Laws of 2012, No. 79, item 445).



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6. Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888).
7. Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws of 2011, No. 227, item 1367, as amended).
amended)
8. ADR regulations
9. Regulation of the Minister of Labour and Social Policy of 6 June 2014 on the highest permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2014, item 817).
10. Regulation of the Minister of Health of 30 December 2004 on occupational health and safety related to the presence of chemical factors in the workplace (Journal of Laws of 2005, No. 11, item 86, as amended).
11. Regulation of the Minister of the Environment of 9 December 2003 on substances posing special threat to the environment (Journal of Laws of 2003, No. 217, item 2141).
12. Regulation of the Minister of Health of 29 August 2006 on the list of toxicology centers responsible for controlling poisoning with biocidal products and entities obliged to report poisonings (Journal of Laws of 2006, No. 161, item 1143, as amended).
13. Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (OJ L 133, 31.05.2010).
14. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (OJ EU L 353, 31.12.2008, as amended).

15.2. Chemical safety assessment

The chemical safety of the mixture has not been assessed.

SECTION 16: OTHER INFORMATION

Changes made compared to the previous version: point 3.2. – information on REACH registration of the substances listed in the table has been added

The full text of the hazard statements given in section 3.2 of the card:

Repr. 1B	Reproductive toxicity, Category 1B
STOT RE1	Specific target organ toxicity (repeated exposure), Category 1.
Acute Tox. 1	Acute toxicity, category 1.
Aquatic Chronic 1 Substance posing a hazard to the aquatic environment – chronic hazard, Category 1.	
Aquatic Acute 1 Substance posing a hazard to the aquatic environment – acute hazard, Category 1.	
H300	Swallowing may result in death.
H310	May be fatal on contact with skin.
H330	Inhalation may result in death.
H360D	May be harmful to an unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic organisms.
H410	Very toxic to aquatic organisms, causing long-term effects.

Strictly follow the recommendations on the label and instructions for use.

This data sheet was prepared based on applicable regulations and our knowledge and experience. The above information relates only to the specific material and may not be appropriate for this product when used in combination with another product or in processes not specified in the text. The data contained in this data sheet should be considered solely as an aid to the safe transport, use, and storage of the product. Statutory regulations and any third-party rights must be observed at all times. This data sheet does not constitute an assessment of workplace hazards, nor is it a certificate of product quality. The user is responsible for any liability resulting from improper use of the information contained in this data sheet.