



MATERIAL SAFETY DATA SHEET
TOXAN® LIQUID in
 accordance with Commission Regulation (EU) No 453/2010

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

1.1. Product ID

Trade name: TOXAN® LIQUID

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

Identified uses: Rodenticide _____

(anticoagulant) - ready-to-use liquid bait intended to combat rodents (house mouse, field mouse and brown rat).

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

The product is not classified as hazardous.

2.2. Labeling elements

Labelling according to Regulation (EC) No. 1272/2008: Hazard _____

pictogram: none Signal word: none Hazard

statements: none Safety

phrases: Keep out of reach of children.

P102

P280 Wear protective gloves. [For professional users only]

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.

3.2. Mixtures

NAME	NR CAS / WE	CONCENTRATION [%]	CLASSIFICATION
			Regulation 1272/2008
Bromadiolon	28772-56-7/249-205-9	0,005	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.

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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.

For persons providing assistance:
Personal protective equipment - section 8 of the card.

6.2. Environmental precautions

Avoid release to the environment. Do not allow the product or its packaging to contaminate soil, surface water, or sewage systems.



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6.3. Methods and materials for containment and removal of contamination

In the event of accidental release into the environment or surface contamination, the product should be collected, avoiding direct skin contact (in a labeled container), and delivered to a company authorized to recover and dispose of hazardous waste. Wash the contaminated surface with soap and water. In the event of extensive contamination, notify the appropriate authorities.

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 this product only for its intended purpose, in accordance with the label recommendations. Only use this product in areas out of the reach of children and non-target animals (especially dogs, cats, pigs, poultry, and wild birds). Wear appropriate protective gloves. Avoid contact of the product with eyes and skin. Avoid contaminating clothing. Do not eat, drink, or smoke while using the product. Wash hands and any exposed skin after applying the product and before eating, drinking, or smoking.

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

Store the product in its original, labeled, tightly closed packaging at a temperature not lower than 5°C.

°C, in a dry, well-ventilated place, out of reach of children and non-target animals (especially dogs, cats, pigs, and birds). Protect from direct sunlight. Keep away from food, beverages, feed, and chemicals that could alter the odor of the bait.

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 Control

Technical 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:

Avoid release to the environment. Do not allow the product or its packaging to contaminate soil, surface water, or sewage systems.

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

a)	dark purple liquid
Appearance:	characteristic
b) Odor: c) Odor	not marked
	ok. 8,8
threshold: d) pH: e) Melting/freezing point:	not marked

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- d) Respiratory or skin sensitisation: Product: does not cause skin sensitisation.
- e) Germ cell mutagenicity: The product is not classified as hazardous.
- f) Carcinogenicity:
The product is not classified as hazardous.
- g) Reproductive toxicity: The product is not classified as hazardous.
- h) Specific target organ toxicity – single exposure: The product is not classified as hazardous.
- i) Specific target organ toxicity – repeated exposure: The product is not classified as hazardous.
- j) aspiration hazard: The product is not classified as hazardous.

Information on likely routes of exposure: No information is
available on specific health effects from ingestion, inhalation, or skin/eye exposure. The preparation may be harmful to humans and non-target organisms 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.

12.1. Toxicity

Product (extrapolated values):

Fish toxicity:

Rainbow trout (*Oncorhynchus mykiss*): LC50 (96 h) = 57.2 g/l

Toxicity to daphnia:

Daphnia magna: EC50 (48 h) = 115,8 g/l

Toxicity to algae:

Pseudokirchneriella subcapitata: ErC50 (72 h) = 22.8 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, any materials contaminated with the product, product residue after use (sealed in a labeled container), and dead rodents should be removed using protective gloves and delivered to a company authorized to recover and dispose of hazardous waste (e.g., incinerators). Do not mix with municipal waste. The product and its packaging are not intended for recycling. Any product left in the feeder that is not eaten by rodents must not be reused. Packaging should not be used for other purposes.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number**

Not applicable. The product is not classified as hazardous.

14.2. UN proper shipping name

Not applicable. The product is not classified as hazardous.

14.3. Transport hazard class(es)

Not applicable. The product is not classified as hazardous.

14.4. Packing group

Not applicable. The product is not classified as hazardous.

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. The product is not classified as hazardous.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations specific to the substance or mixture**

1. 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)
2. Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws of 2011, No. 63, item 322)
3. 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).
4. 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).
5. Act of 13 June 2013 on the management of packaging and packaging waste (Journal of Laws of 2013, item 888).



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6. Act of 19 August 2011 on the transport of dangerous goods (Journal of Laws of 2011, No. 227, item 1367, as amended).
amended)
7. ADR regulations
8. 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).
9. 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).
10. 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).
11. 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).
12. 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).
13. 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: Adaptation of the data sheet to the requirements of Annex II of 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 of 31.12.2008, as amended).

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

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.
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.