SAFETY DATA SHEET

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

1.1. **Product identifier:**
Protect Sensation

1.2. **Relevant identified uses of the substance or mixture and uses advised against:**
For killing rats (Rattus norvegicus – brown rat, Rattus rattus – black rat, young and adult) and mice (Mus musculus – house mouse, young and adult). Use only against rodents and according to the instructions of use. Any other uses are advised against. It is forbidden to use against not target animals. For professional use.

Biocide product type: PT14

Application: Indoor/Outdoor – Ready-to-use bait to be used in tamper-resistant bait stations.

1.3. **Details of the supplier of the safety data sheet:**

Information about the manufacturer/distributor:
Bábolna Bio PLC
H-1107 Budapest, Szállás u. 6.
Tel.: (36-1) 432-0400

1.3.1. Responsible person: -
E-mail: info@babolna-bio.com

1.4. **Emergency telephone number:**

Health Toxicological Information Service
(Egészségügyi Toxikológiai Tájékoztató Szolgálat / ETTSZ)
1097 Budapest, Albert Flórián út 2-6.
Tel.: +36 80 201 199 (0-24 hours, free of charge – only from Hungary)
Tel.: +36 1 476 6464 (0-24 hours, for normal fee – from abroad)

Emergency telephone number: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. **Classification of the substance or mixture:**

Classification according to Regulation (EC) No 1272/2008 (CLP):
Reproductive toxicity, Hazard Category 1B – H360D
Specific target organ toxicity – Repeated exposure, Hazard Category 1 – H372

Hazard statements:
H360D – May damage the unborn child.
H372 – Causes damage to organs through prolonged or repeated exposure (blood).

2.2. **Label elements:**

Active substance content: Bromadiolone (ISO) (CAS: 28772-56-7) 0.005 %

Components that define the hazards: Bromadiolone (ISO)

Hazard statements:
H360D – May damage the unborn child.
H372 – Causes damage to organs through prolonged or repeated exposure (blood).

Precautionary statements:
P102 – Keep out of reach of children.
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P262 – Do not get in eyes, on skin, or on clothing.
P264 – Wash thoroughly after handling.
P270 – Do not eat, drink or smoke when using this product.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P301 + **P310** – IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P308 + **P313** – IF exposed or concerned: Get medical advice/attention.
P314 – Get medical advice/attention if you feel unwell.
P405 – Store locked up.
P501 – Dispose of contents and container in accordance with the local requirements / the instruction of the label.

Restricted to professional users.

Notes:
Biocide product, it should be packed/labelled according to Regulation (EU) No. 528/2012 of 22 May 2012 concerning the making available on the market and use of biocidal products.

2.3. **Other hazards:**
The product has no other known specific hazards for human or environment.
Bromadiolone, the active substance of mixture is classified as PBT substance.
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substances:**
Not applicable.

3.2. **Mixtures:**

Description	CAS number	EC number / ECHA list number	REACH registration number	Conc. (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
					Pictogram, signal word code(s)	Hazard class and category code(s)	Hazard statement code(s)
Bromadiolone (ISO) Index number: 607-716-00-8	28772-56-7	249-205-9	-	0.005	GHS08 GHS06 GHS09 Danger	Repr. 1B Acute Tox. 1 Acute Tox. 1 Acute Tox. 1 STOT RE 1 Aquatic Acute 1 M factor =1 Aquatic Chronic 1 M factor =1	H360D H330 H310 H300 H372 (blood) H400 H410

Specific concentration limits:
Bromadiolone (ISO) (CAS: 28772-56-7):
Repr. 1B; H360D: C ≥ 0,003 %
STOT RE 1; H372 (blood): C ≥ 0,005 %
STOT RE 2; H373 (blood): 0,0005 % ≤ C < 0,005 %

This product contains bittering agent and dye.

For the full text of hazard statements, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**

General information: In case of possible intoxication, immediately seek medical advice and show the label.
Not necessary to remove contaminated clothing and shoes.
Protective equipment for first aiders is not required.

INGESTION:

Measures:

- Due to bitter taste, swallowing is unlikely.
- Immediately call a physician and show the packaging, the label or the safety data sheet.
- Do not induce vomiting unless a doctor says so.
- Thoroughly rinse mouth with water.
- Let the victim rest in warm place.
- Do not give anything by mouth to an unconscious person.
- Do not administer large quantities (1-2 litres) of liquid at once, milk or substances containing fat and alcohol.

INHALATION:

Measures:

- Not likely exposure route.

SKIN CONTACT:

Measures:

- Remove the contaminated clothes and wash before reuse.
- Wash the skin with plenty of water and soap.
- In case of complaints, obtain medical help.

EYE CONTACT:

Measures:

- Remove contact lenses if present.
- In case of contact with eyes flush with water or eye bath holding eyelids apart (for at least 15 minutes).
- In case of complaints, obtain medical help.

4.2. **Most important symptoms and effects, both acute and delayed:**

In case of ingestion – sometimes as delayed – symptoms can be bleeding of the nose or gums. In serious cases bruising, blood in the urine or stool can occur.
The bitter additive considerably reduces the probability of incidental consumption. Symptoms of intoxications: Sickness, pale skin, vomiting, haemophilia, bleeding mycoderm, melaena and haematuria, diarrhoea, bleeding of nose and gums, internal haemorrhage. The effects appear progressively, within 12-18 hours from ingestion.

4.3. **Indication of any immediate medical attention and special treatment needed:**

The product contains anticoagulant substance. Antidote: Vitamin K1 administered only by a doctor or vet.
Note for the physician:
The preparation contains anticoagulant active substance, bromadiolone. After the ingestion of the rodenticide, blood clotting can be reduced and can cause internal haemorrhaging. Between the intoxication/exposure and the appearance of symptoms, several days can be passed.
When attending the victim, if typical symptoms (e.g. bleeding of the nose or gums, spitting blood, blood in the urine or stool, longer blood clotting time, large surface or several haematoma, sudden and unusual visceral pain) appear, administer vitamin K1. If there is no bleeding, when attending the victim and 48-72 hours after the exposure, measure the prothrombin time (INR). If the prothrombin time is >4, give the victim vitamin K1 intravenously. Repeating the treatment can be necessary.
Treatment: in case of ingestion of large quantities, induce vomiting, perform gastric lavage and monitor prothrombin activity; if it reduces, give Vitamin K. The efficacy of the treatment needs to be monitored by laboratory measurements.
Contraindications: anticoagulants.

SECTION 5: FIREFIGHTING MEASURES

5.1. **Extinguishing media:**

5.1.1. **Suitable extinguishing media:**

Foam, dry powder, carbon dioxide.
If necessary, water can also be used.

5.1.2. **Unsuitable extinguishing media:**

No data available.

5.2. **Special hazards arising from the substance or mixture:**

In case of fire, smoke and other combustion products (CO) may be formed; the inhalation of such combustion products can have serious adverse effects on health.
No special measures required.

5.3. **Advice for firefighters:**
Wear protective clothing and (indoors) self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. **Personal precautions, protective equipment and emergency procedures:**

6.1.1. **For non-emergency personnel:**
Allow only well-trained experts wearing suitable protective clothing to abide in the field of accident.
The use of protective gloves is recommended.
It is not necessary to evacuate the area.
Expert consultation is not required.

6.1.2. **For emergency responders:**
No special precautions required.

6.2. **Environmental precautions:**
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.

6.3. **Methods and material for containment and cleaning up:**
Bounding the area is not necessary.
Shovel the spilled product, then place the collected waste into appropriate, labelled, closable hazardous waste container till proper removal/disposal.
Dispose of the collected waste as described in Section 13.

6.4. **Reference to other sections:**
For further and detailed information see Section 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Place the product out of the reach of children, birds, pets and farm animals and other non-target animals.
Place the product away from food, drink and animal feeding stuffs, as well as from utensils or surfaces that have contact with these.
Do not eat, drink, or smoke when using this product.
Wash hands after using the product.
Technical measures:
No special measures required.
Precautions against fire and explosion:
No special measures required.

7.2. **Conditions for safe storage, including any incompatibilities:**
Technical measures and storage condition:
Store in a dry, cool and well-ventilated place.
Keep the container closed and away from direct sunlight.
Store in places prevented from the access of children, birds, pets and farm animals.
Shelf life: 2 years.
Incompatible materials: See Section 10.5.
Packaging material: See SPC.

7.3. **Specific end use(s):**
In accordance with the instructions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):
The components of the mixture are not regulated with exposure limit value.

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no note(s)
Seawater	no data	no note(s)
Freshwater sediment	no data	no note(s)
Seawater sediment	no data	no note(s)
Wastewater Treatment Plant (STP)	no data	no note(s)
Intermittent release	no data	no note(s)
Secondary poisoning	no data	no note(s)
Soil	no data	no note(s)

8.2. **Exposure controls:**
In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. **Appropriate engineering controls:**
In pursuance of work is proper foresight needed to avoid spilling onto clothes and floors and to avoid contact with eyes and skin.

8.2.2. **Individual protection measures, such as personal protective equipment:**

1. **Eye/face protection:** Use appropriate protective glasses (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
    a. **Hand protection:** Professionals must use appropriate, chemical resistant protective gloves (EN 374). There is no special requirement regarding the material.
    b. **Other:** Use appropriate protective clothing.
3. **Respiratory protection:** Not necessary.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. **Environmental exposure controls:**
No specific prescription.

The requirements detailed in section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. **Information on basic physical and chemical properties:**

	Parameter	Value / Test method / Remarks
1.	Physical state	wax block with clay-like filling
2.	Colour	wax block: red filling: blue
3.	Odour, odour threshold	sweetish, cereal-like
4.	Melting point/freezing point	50 – 60 °C
5.	Boiling point or initial boiling point and boiling range	no data*
6.	Flammability	not flammable
7.	Lower and upper explosion limit	no data*

8.	Flash point	no data*
9.	Auto-ignition temperature	not self-flammable
10.	Decomposition temperature	no data*
11.	pH	6.1 (in 1 g mixture /100 ml water, 20 °C)
12.	Kinematic viscosity	no data*
13.	Solubility in water in other solvents	no data* no data*
14.	Partition coefficient n-octanol/water (log value)	no data*
15.	Vapour pressure	no data*
16.	Density and/or relative density	1.16
17.	Relative vapour density	no data*
18.	Particle characteristics	no data*

9.2. **Other information:**

9.2.1. **Information with regard to physical hazard classes:**
Explosive properties: Not expected.
Oxidising properties: Not expected.

9.2.2. **Other safety characteristics:**
No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. **Reactivity:**
The mixture does not have any kind of property that can mean hazard from its reactivity.
Incompatibility is not expected if the product contacts with materials during transport, storage or usage.

10.2. **Chemical stability:**
Stable within normal ambient temperature and pressure under storage and handling conditions.

10.3. **Possibility of hazardous reactions:**
The mixture does not reactive under excessive pressure or heat conditions.

10.4. **Conditions to avoid:**
High temperature, light and humidity can cause product deterioration, but hazardous conditions are not expected.

10.5. **Incompatible materials:**
No incompatible materials known.

10.6. **Hazardous decomposition products:**
No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. **Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: May damage the unborn child.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Causes damage to organs through prolonged or repeated exposure (blood).
Aspiration hazard: Based on available data, the classification criteria are not met.

11.1.1. **Summaries of the information derived from the test conducted:**
No data available.

11.1.2. **Relevant toxicological properties:**
Data about the product:
LD_{50} (oral, rat): >2000 mg/kg
LD_{50} (dermal, rat): >2000 mg/kg
Not irritating to the eyes or skin.
Does not cause sensitization.

Information about the components:
Bromadiolone (ISO) (CAS: 28772-56-7):
LD_{50} (oral, rat): 1.31 mg/kg bw
LD_{50} (dermal, rat): 23.31 mg/kg bw
LC_{50} (inhalation, rat, male/female): 0.43 µg/l/l
Skin irritation: not irritating
Eye irritation: not irritating
Skin sensitization: not skin sensitizer
Repeated dose toxicity:
NOAEL (rat): 2.5 µg/ kg bw/day
NOAEL (rabbit): 0.5 µg/kg bw/day
Reproductive toxicity:
Maternal toxicity:
LOAEL (rabbit): 2 µg/kg bw/day
NOAEL (rabbit): < 2 µg/kg bw/day
Developmental toxicity:
LOAEL (rabbit): 2 µg/kg bw/day
NOAEL (rabbit): 4 µg/kg bw/day

11.1.3. Information on likely routes of exposure:
Ingestion, inhalation, skin contact, eye contact.

11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:
May damage the unborn child.
Causes damage to organs through prolonged or repeated exposure (blood).

11.1.6. Interactive effects:
No data available.

11.1.7. Absence of specific data:
No information.

11.2. Information on other hazards:
Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:
The mixture is not classified as hazardous for the environment.
Information about the components:
Bromadiolone (ISO) (CAS: 28772-56-7):
LC_{50} (Oncorhynchus mykiss): 1.4 mg/l/96 hours
LC_{50} (Lepomis macrochirus): 3.0 mg/l/96 hours
EC_{50} (daphnia): 5.8 mg/l/48 hours

12.2. Persistence and degradability:
No data available.

12.3. Bioaccumulative potential:
Information about the components:
Bromadiolone (ISO) (CAS: 28772-56-7):
log Pow: 3.8
BCF: 339

12.4. Mobility in soil:
No data available.

12.5. Results of PBT and vPvB assessment:
Bromadiolone, the active substance of mixture is classified as PBT substance.

12.6. Endocrine disrupting properties:
Endocrine disrupting property: Based on available data, does not contain endocrine disruptors.

12.7. Other adverse effects:
Hazardous wildlife.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. **Waste treatment methods:**
Disposal according to the local regulations.

13.1.1. **Information regarding the disposal of the product:**
Dispose of in accordance with applicable regulations.
Waste rodenticide and bait stations that cannot be used for their original purpose must be treated as hazardous waste and disposed of at a hazardous waste collection point - e.g. landfill. It is recommended to wear protective gloves when collecting pest control products.
Rodents can be disease carriers. Do not touch dead rodents with bare hands, use gloves or use tools such as tongs when disposing them.
Recommended disposal method: incineration.
For professional users:
In order to prevent a risk to public health and secondary poisonings, rodents killed during treatment should be removed in parallel with the controls. The carcasses of dead rodents must be disposed of as hazardous waste in accordance with the relevant regulations.
Eliminate feeding sites after treatment. Collect remaining rodenticides as well as rodenticide kits. Make sure to clean up any spilled product. Waste rodenticide and bait stations that cannot be used for their original purpose must be treated as hazardous waste and disposed of at a hazardous waste collection point - e.g. landfill.
List of Waste Code:
No waste disposal key according to the List of Waste Code (LoW code) can be determined for this product, as only the purpose of application defined by the user enables an allocation. The LoW code number has to be determined after a discussion with a waste disposal specialist.

13.1.2. **Information regarding the disposal of the packaging:**
Dispose of in accordance with applicable regulations.
Emptied packaging can be disposed of as municipal waste.

13.1.3. **Physical/chemical properties that may affect waste treatment options shall be specified:**
No data available.

13.1.4. **Sewage disposal:**
No data available.

13.1.5. **Special precautions for any recommended waste treatment:**
No data available.

SECTION 14: TRANSPORT INFORMATION

ADR/RID; ADN; IMDG; IATA:
Not dangerous good in sense of the transport regulations.

14.1. **UN number or ID number:**
No UN number.

14.2. **UN proper shipping name:**
No proper shipping name.

14.3. **Transport hazard class(es):**
No transport hazard classes.

14.4. **Packing group:**
No packaging group.

14.5. **Environmental hazards:**
Environmentally hazardous: No.

14.6. **Special precautions for user:**
No relevant information available.

14.7. **Maritime transport in bulk according to IMO instruments:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

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

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EU) No 528/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 22 May 2012 concerning the making available on the market and use of biocidal products

The product contains ingredient which listed in Annex XVII of Regulation (EC) No. 1907/2006 therefor falls under restriction:
Entry 30 – Toxic to reproduction
Bromadiolone (ISO) (CAS: 28772-56-7)

The mixture contains a substance subject to Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals:
Bromadiolone (ISO) (CAS: 28772-56-7)
ANNEX I - PART 1 List of chemicals subject to export notification procedure

15.2. **Chemical safety assessment:** Has not been carried out.

SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:
The safety data sheet has been revised according to Regulation (EU) 2020/878 (Section 1-16).
The composition and hazard classification of the mixture did not change compared to the previous version.

This Safety Data Sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

Literature references / data sources:
Previous version of the safety data sheet (22. 01. 2022, version 1).

Methods used for the classification according to Regulation (EC) No 1272/2008:

Classification	Method
Reproductive toxicity, Hazard Category 1B – H360D	Based on calculation method
Specific target organ toxicity – Repeated exposure, Hazard Category 1 – H372	Based on calculation method

Relevant hazard statements (code and full text) of Sections 2 and 3:
H300 – Fatal if swallowed.
H310 – Fatal in contact with skin.
H330 – Fatal if inhaled.
H360D – May damage the unborn child.
H372 – Causes damage to organs <*or state all organs affected, if known*> through prolonged or repeated exposure <*state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard*>.
H373 – May cause damage to organs <*or state all organs affected, if known*> through prolonged or repeated exposure <*state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard*>.
H400 – Very toxic to aquatic life.
H410 – Very toxic to aquatic life with long lasting effects.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EuPCS: European product categorisation system.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC_{50}: Lethal concentration resulting in 50 % mortality.
LD_{50}: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.
QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.
The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.
The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.
Users are cautioned to determine the appropriateness and applicability of the above information to their circumstances and purposes and assume all risk associated with the use of this product.
It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:
MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of the safety data sheet:
+36 70 335 8480; info@msds-europe.com
www.msds-europe.com