

## TOP PERFEKT

### Safety Data Sheet

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

**1.1 Product identifier:** TOP PERFEKT

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

Low-foaming product, designed for cleaning strongly polluted surfaces (floors, walls, various machines and devices), including those that have contact with food.

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

TENZI Sp. z o.o.  
Skarbimierzyce 20  
72-002 Dołuje  
tel. +48 91 3119777  
fax. +48 91 3119779  
E-mail address for a competent person responsible for SDS: [technolog@tenzi.pl](mailto:technolog@tenzi.pl)

**1.4 Emergency telephone number:**

+48 91 31 19 777 (mon. - fri. 8am - 4pm) or 112.

#### SECTION 2. HAZARDS IDENTIFICATION

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

**Classification according to Regulation (EC) No. 1272/2008:**

**Skin Corr. 1B H314** – Causes severe skin burns and eye damage.

**Eye Dam. 1 H318** – Causes serious eye damage.

**STOT SE 3 H335** – May cause respiratory irritation.

**2.2. Label elements:**

(According to 1272/2008/EC\*)

**Hazard symbols:**



**Signal words:**

DANGER

**Hazard statements:**

**H314** – Causes severe skin burns and eye damage.

**H335** – May cause respiratory irritation.

**Precautionary statements:**

**P271** – Use only outdoors or in a well-ventilated area.

**P280** – Wear protective gloves/protective clothing/eye protection/face protection.

**P301+P330+P331** – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**P303+P361+P353** – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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**P305+P351+P338** – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** – Immediately call a POISON CENTER/doctor  
**P405** – Store locked up.

#### 2.3. Other hazards:

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1. Substances:

Not applicable.

#### 3.2. Mixtures:

**Composition (according to: 648/2004/EC):**

- < 5-15% EDTA sodium salts
- < 5% non-ionic surfactants
- < 5% phosphonates
- aroma composition (Limonene)
- auxiliary substances not classified as dangerous
- potassium hydroxide

Identification	Hazardous ingredient/classification	Concentration
CAS: 141-43-5 WE: 205-483-3 Index: 603-030-00-8 Registration: 01-2119486455-28-XXXX	<b>2-hydroxy-ethylamine</b>  Acute Tox. 4 H302, Acute Tox. 4 H332, Acute Tox. 4 H312, Skin Corr. 1B H314, STOT SE 3 H335	< 7%
CAS: 64-02-8 WE: 200-573-9 Index: 607-428-00-2 Registration: 01-2119486762-27-XXXX	<b>EDTA (sodium salts)</b>  Eye Irrit 2 H319, Acute Tox. 4, H332, Met. Corr. 1 H290	< 6%
CAS: 68439-54-3 WE: Polymer Index: Not applicable Registration: Introductory	<b>Non-ionic surfactants</b>  Eye Dam. 1 H318, Acute Tox. 4 H302	< 4%
CAS: 1310-58-3 WE: 215-181-3 Index: 019-002-00-8 Registration: 01-2119487136-33-XXXX	<b>Potassium hydroxide</b>  Acute Tox.4 H302, Skin Corr. 1A H314, Met. Corr. 1 H290	< 1%

The full texts of H symbols and phrases are in section 16.

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#### SECTION 4. FIRST AID MEASURES

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

**Inhalation:**

In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move the injured to fresh air. Lay him down in semi-recumbent posture and get medical attention. Make sure to keep him calm and warm. Physical effort may cause pulmonary edema.

**Skin contact:**

If product comes in contact with the skin, immediately remove all contaminated clothing and flush exposed area with large amounts of water. In case of skin changes or burns, get medical attention.

**Eye contact:**

Flush eyes with running water (at least 15 minutes) while keeping eyelids open. Get medical attention.

**Ingestion:**

Wash your mouth with running water, drink about 1-2 liters of it and do not induce vomiting. Get medical attention and show them this SDS or label.

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

**Inhalation:**

Irritant. May cause irritation of the upper respiratory tract.

**Skin:**

Causes serious skin burns.

**Eyes:**

Causes severe eye damage.

**Ingestion:**

May cause burning of the mucous membranes.

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

Get medical attention.  
Fresh water and eye-wash preparations must be available on the worksite.

#### SECTION 5. FIREFIGHTING MEASURES

##### 5.1. Extinguishing media:

**Suitable extinguishing media:**

Atomized water, extinguishing powder, foam.

**Unsuitable extinguishing media:**

Do not use water jet on substance's surface.

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

Product is non-flammable.

##### 5.3. Advice for firefighters:

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire, warn the people nearby and evacuate unprotected and untrained personnel from hazard area. Notify relevant emergency services. If possible, remove the containers away from the influence of fire and high temperature. Water may be used to keep fire-exposed containers cool until

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fire is out. The after burning residues should be removed

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Protective clothes, protective chemical-proof gloves (0.11 mm thick), self-contained breathing apparatus, safety glasses. Avoid skin and eye contact. Provide proper ventilation..

##### 6.2. Environmental precautions:

No data available.

##### 6.3. Methods and material for containment and cleaning up:

In case of unexpected release of the substance into the environment, inform appropriate services about the emergency and remove any source of ignition. Prevent spills from entering sewers, surface water or groundwater. If it is possible, confine and contain the spill by closing the flow of the liquid, plug the damaged container and put it into leakproof wrapping. For a larger spill, make a dike around the outside edges of the spill and use absorbent materials (sand, sawdust, minced limestone). Store clean-up materials for disposal as hazardous waste. Decontaminate polluted area with water.

##### 6.4. Reference to other sections:

See section 8 and 13.

#### SECTION 7. HANDLING AND STORAGE

##### 7.1. Precautions for safe handling:

Be careful when working with this product.  
Use personal protection recommended in section 8  
Mix only with water. DO NOT mix with any other chemical substances.  
People with skin allergy or respiratory system problems should not have contact with this product.  
Avoid risk – read this instruction sheet carefully before using the product.  
After usage, keep container tightly closed and keep it away from unauthorized people.  
Use only adequate ventilation to avoid inhalation poisoning.

##### 7.2. Conditions for safe storage, including any incompatibilities:

Store in a tightly closed, original plastic container. Store this product in a dry environment that will be maintained at 5°C - 35°C temperature with a good ventilation system and an easy washable, nonabsorbable alkaline resistant floor.  
DO NOT expose the product to sunlight and keep away from heat, sparks, flame and source of ignition.

##### 7.3. Specific end use(s):

No data available.

#### SECTION 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

##### 8.1. Control parameters:

Please check any national occupational exposure limit values in your country.

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**NDS/NDSCh/NDSP values for individual chemical substances (according to SDS or Chemical Safety Report):**

**2-hydroxy-ethylamine (data for highly concentrated substance):**

**NDS:** 2.5 mg/m<sup>3</sup>  
**NDSCh:** 7.5 mg/m<sup>3</sup>  
**NDSP:** not identified.

**EDTA sodium salts (data for highly concentrated substance):**

**NDS, NDSCh, NDSP:** not identified.

**Non-ionic surfactants (data for highly concentrated substance):**

**NDS, NDSCh, NDSP:** not identified.

**Potassium hydroxide (data for highly concentrated substance):**

**NDS:** 0.5 mg/m<sup>3</sup>  
**NDSCh:** 1 mg/m<sup>3</sup>  
**NDSP:** not identified.

**DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report):**

**2-hydroxy-ethylamine (data for highly concentrated substance):**

**DNEL:**

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 1 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 3.3 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,	Value: 0.24 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,	Value: 2 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,	Value: 3.75 mg/kg

**PNEC:**

Aqua (fresh water): 0.085 mg/l  
Aqua (marine water): 0.0085 mg/l  
Sediment (fresh water): 0.425 mg/kg  
Sediment (marine water): 0.0425 mg/kg  
Sewage treatment plant: 100 mg/l  
Intermittent release: 0.025 mg/l  
Soil: 0.035 mg/kg

**EDTA sodium salts (data for highly concentrated substance):**

**DNEL, PNEC:** no data available

**Non-ionic surfactants (data for highly concentrated substance):**

**DNEL, PNEC:** no data available

**Potassium hydroxide (data for highly concentrated substance):**

**DNEL, PNEC:** no data available

**NOTE:** When the concentration of substance is known, personal protective equipment should be chosen based on substance concentration in a workplace, exposure time and operations performed by the employee. In emergency situations, if substance concentration in the workplace is unknown, personal protection of highest class level should be used.

#### 8.2. Exposure controls:

**RESPIRATORY PROTECTION:**

In case of insufficient ventilation, it is recommended to wear a gas mask with vapour absorber.

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**HAND PROTECTION:**

Protective chemical-proof gloves (0.11 mm thick)

**EYE/FACE PROTECTION:**

Safety glasses. In case of possible contact with skin, use face shield.

**SKIN PROTECTION:**

Protective clothes.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance:</b>	Colourless liquid
<b>Odour:</b>	Characteristic for materials used in production
<b>Odour threshold:</b>	No data available
<b>pH:</b>	14 ± 1
<b>Melting point:</b>	No data available
<b>Freezing point:</b>	No data available
<b>Initial boiling point:</b>	No data available
<b>Boiling range:</b>	No data available
<b>Flash point:</b>	No data available
<b>Evaporation rate:</b>	No data available
<b>Flammability (solid, gas):</b>	No data available
<b>Upper flammability limit:</b>	No data available
<b>Lower flammability limit:</b>	No data available
<b>Upper explosive limit:</b>	No data available
<b>Lower explosive limit:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density:</b>	No data available
<b>Relative density:</b>	1.065 ± 0.020 g/cm <sup>3</sup>
<b>Solubility:</b>	
<b>A) Water:</b>	soluble
<b>B) Organic solvent:</b>	No data available
<b>Partition coefficient N-Octan:</b>	No data available
<b>Partition coefficient Water:</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	No data available
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	No data available

**9.2. Other information:**

**Refractive index:** 19.4% Brix\* ± 5%

\* - Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w).

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#### SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:**

Mixture is not reactive.

**10.2 Chemical stability:**

Stable under recommended storage conditions (see section 7).

**10.3 Possibility of hazardous reactions:**

May react violently with acids and light metals (creates explosive hydrogen).

**10.4 Conditions to avoid:**

Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight.

**10.5 Incompatible materials:**

Acids, strong oxidizers, light metals.

**10.6 Hazardous decomposition products:**

No data available.

#### SECTION 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:****ACUTE TOXICITY:**

**Inhalation:** may cause serious damage to upper respiratory tract, burns, chemical pneumonia and pulmonary edema.

**Skin contact:** causes serious skin burns.

**Eye contact:** causes serious eye damage.

**Digestive system:** causes serious burns in mouth, throat, stomach and serious damage to gastrointestinal tissues (perforation risk) which may cause even death. Symptoms include strong pain, vomiting, diarrhea and lower blood pressure.

ATEmix = 183 (acute toxicity, inhalation)

ATEmix = 6165 (acute toxicity, orally)

ATEmix = 35842 (acute toxicity, dermal)

ATEmix = 18.586 (acute toxicity, dust/mist)

**DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):****2-hydroxy-ethylamine (data for highly concentrated substance):**

**LD50:** 1515 mg/kg (rat, orally) (OECD 401)

**LC50:** >1.3 mg/l/6h (rat, inhalation)

**LD50:** 2504 mg/kg (dermal) (OECD 402)

Skin irritation (rabbit) (OECD 404)

Serious eye irritation (rabbit) (OECD 405)

No allergic effect (guinea pig) (OECD 406)

**Teratogenicity:**

No distortions.

**Reproductive toxicity:**

The actual product was not tested. Following statements are based on products with similar structure.

After high enough dosage, we cannot exclude potential side effects that may cause fertility problems or other harmful effects on human body.

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#### EDTA sodium salts (data for highly concentrated substance):

Moderate toxicity in case of short-term inhalation exposure.  
Non-toxic in case of one-time orally and skin exposure.

**LD50:** >2000 mg/kg (rat, orally)

Data for EDTA tetrasodium salts:

**LC50:** 1000-5000 mg/m<sup>3</sup>/6h (inhalation) (OECD 403)

Doesn't irritate skin (rabbit).

Irritates eyes (rabbit)

No allergic effects.

No mutagenic effects.

No carcinogenic effects.

No reproductive problems.

#### Non-ionic surfactants (data for highly concentrated substance):

Data for ethoxylated alcohols C8-C18 (>5-20EO):

**LD50:** >300-2000 mg/kg (rat, orally)

**LD50:** >2000 mg/kg (rat, dermal)

Harmful after ingestion.

Contact with eyes may cause irreversible damage (rabbit).

#### Potassium dioxide (data for highly concentrated substance):

**LD50:** 273 mg/kg (rat, orally)

Corrosive to skin above 10% concentration.

Irritant to eyes in 0.5-2% concentration.

Corrosive to eyes above 2% concentration.

Corrosive to respiratory system.

No allergic effects.

Causes burns and damage to digestive system.

No carcinogenic effects.

No mutagenic effects.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity:

#### Data for the mixture ingredients:

#### 2-hydroxy-ethylamine (data for highly concentrated substance):

<b>LC50:</b>	349 mg/l/96h	(fish, <i>Cyprinus carpio</i> )	(semi-static)
<b>LC50:</b>	170 mg/l/96h	(fish, <i>Carassius auratus</i> )	(static)
<b>EC50:</b>	65 mg/l/48h	(daphnia, <i>Daphnia magna</i> )	(static)
<b>EC50:</b>	2.5 mg/l/72h	(algae, <i>Selenastrum capricornutum</i> )	(growth degree, OECD 201)
<b>EC50:</b>	22 mg/l/72h	(algae, <i>Scenedesmus subspicatus</i> )	(growth degree)

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#### EDTA sodium salts (data for highly concentrated substance):

Data for EDTA tetrasodium salts (100%):

<b>LC50:</b>	> 100 mg/l/96h	(fish, <i>Leoponis macrochirus</i> )	(OPP 72-1, static)
<b>EC50:</b>	> 100 mg/l/48h	(daphnia, <i>Daphnia magna</i> )	(DIN 38412 part 11, static)
<b>EC50:</b>	> 100 mg/l/72h	(algae, <i>Scenedesmus obliquus</i> )	(88/302/EWG, static)

#### Non-ionic surfactants (data for highly concentrated substance):

<b>LC50:</b>	> 1-10 mg/l/96h	( <i>Cyprinus carpio</i> )	(OECD 203)
<b>EC50:</b>	> 1-10 mg/l/48h	( <i>Daphnia magna</i> )	(OECD 202)
<b>EC50:</b>	> 1-10 mg/l/72h	( <i>Scenedesmus subsipicatus</i> )	(OECD 201)

#### Potassium dioxide (data for highly concentrated substance):

<b>LC50:</b>	80 ppm	( <i>Gambusia affinis</i> )
<b>LC50:</b>	660 ppm	( <i>Daphnia magna</i> )
<b>EC50:</b>	1337 ppm	( <i>Nitscherai Linearis</i> )

#### 12.2. Persistence and degradability:

The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

#### Data for the mixture ingredients:

Substance	Method	Length	Degraded percentage
2-hydroxy-ethylamine	OECD 301 A	21 days	> 90%
EDTA sodium salts	Hardly biodegradable	Hardly biodegradable	Hardly biodegradable
Non-ionic surfactants	OECD 301 A	28 days	> 70%
Non-ionic surfactants	OECD 301 B	28 days	> 60%
Potassium hydroxide	No data available	No data available	No data available

#### 12.3. Bioaccumulative potential:

Low probability of bioaccumulation.

#### 12.4. Mobility in soil

The product is water soluble and may sink into groundwater systems.

#### 12.5. Results of PBT and vPvB assessment:

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII..

#### 12.6. Other adverse effects:

No data available.

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#### SECTION 13. DISPOSAL CONSIDERATIONS

##### RESIDUES AND WASTES:

DO NOT mix with other liquid wastes.

DO NOT empty into sewage system. Product should be totally used up according to its description.

If it's impossible to do so, dispose of this material and its container at hazardous or special waste collection point.

##### 13.1. Waste treatment methods:

Contaminated containers should be completely emptied. Several times rinse the container promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

#### SECTION 14. TRANSPORT INFORMATION

##### TRADE NAME: TOP PERFEKT

- 14.1. UN Number: 1719  
14.2. UN proper shipping name: Caustic alkali liquid, N.O.S. (potassium hydroxide)  
14.3. Transport hazard class(es): ADR class. 8  
14.4. Packing group: III  
14.5. Environmental hazards: NIE.  
14.6. Special precautions for user: For more details see Sections 6 and 8.  
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

##### WARNING LABELS



#### SECTION 15. REGULATORY INFORMATION

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

- 1) 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).
- 2) REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents.
- 3) COMMISSION REGULATION (EC) No 907/2006 of 20 June 2006 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes III and VII thereto.
- 4) REGULATION (EC) No 1336/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 amending Regulation (EC) No 648/2004 in order to adapt it to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
- 5) COMMISSION REGULATION (EC) No 551/2009 of 25 June 2009 amending Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, in order to adapt Annexes V and VI thereto (surfactant derogation).
- 6) REGULATION (EU) No 259/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 14 March 2012 amending Regulation (EC) No 648/2004 as regards the use of phosphates and other phosphorus compounds in consumer laundry

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detergents and consumer automatic dishwasher detergents.

7) REGULATION (EC) No 273/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 11 February 2004 on drug precursors).

8) 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.

#### 15.2. Chemical safety assessment

##### For mixture:

A Chemical Safety Assessment has not been carried out.

##### For following mixture substances:

**2-hydroxy-ethylamine:** No data available.

**EDTA sodium salts:** A Chemical Safety Assessment has been carried out.

**Non-ionic surfactants:** No data available.

**Potassium hydroxide:** A Chemical Safety Assessment has been carried out.

### SECTION 16. OTHER INFORMATION

Information above is based on current knowledge of product in its current form.

All data are presented in order to take into account safety requirements priority and not to guarantee special properties of the product. If product usage conditions are not under manufacturer control, responsibility for safe use lies with the person that uses them. The employer is obliged to inform all employees, who have contact with the product, about the risk and safety measures specified in the data sheet. Safety data presented above were prepared based on safety characteristics of substances used by the producer to compose the product and based on regulations for handling dangerous substances and their preparation. Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

#### The full list of symbols and H phrases from Section 2 and 3:

<b>Acute Tox. 4</b>	– Acute toxicity, category 4.
<b>Met.Corr 1</b>	– Substance/Mixture is corrosive to metals, category 1
<b>Eye Dam. 1</b>	– Serious eye damage, category 1.
<b>Skin Corr. 1A</b>	– Corrosive to skin, category 1B.
<b>Skin Corr. 1B</b>	– Corrosive to skin, category 1B.
<b>STOT SE 3</b>	– Specific target organ toxicity - Single exposure STOT, category 3.
<b>Skin Irrit. 2</b>	– Causes skin irritation, category 2.
<b>H290</b>	– May be corrosive to metals.
<b>H302</b>	– Harmful if swallowed.
<b>H312</b>	– Harmful in contact with skin.
<b>H314</b>	– Causes severe skin burns and eye damage.
<b>H318</b>	– Causes serious eye damage.
<b>H319</b>	– Causes serious eye irritation.
<b>H332</b>	– Harmful if inhaled.
<b>H335</b>	– May cause respiratory irritation.

More information on the product can be found on the specific technical data sheet which is available on [www.tenzi.pl](http://www.tenzi.pl)

#### Training:

Course participants should be trained about how to handle this hazardous substance, about safety and work hygiene. Drivers should also be trained and obtain proper certification in accordance with the ADR requirements.



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**Expiry date:**

36 months from the production date (if product is stored according to the producent recommendations)

**Changes compared to the previous version:**

- general update

Updated cards versions are now available on [www.tenzi.pl](http://www.tenzi.pl)

This Safety Data Sheet contains 12 pages. Changes in the content by unauthorized people is prohibited.