

## **Safety Data Sheet**

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

1.1 Product identifier: **GRAN REX** 

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

Highly alkaline product, designed for manually washing dishes.

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

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 Irrit. 2 H315 Causes skin irritation. Eye Dam. 1 H318 - Causes serious eye damage.

2.2. Label elements:

(According to 1272/2008/EC\*)

## Hazard symbols:



Signal words:

**DANGER** 

**Hazard statements:** 

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

**Precautionary statements:** 

P280

 Wear protective gloves/protective clothing/eye protection/face protection.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy P305+P351+P338

to do. Continue rinsing.

- Immediately call a POISON CENTER/doctor P310

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### 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% anionic surfactants
- < 5% amphoteric surfactants
- preservative substance (glutaral)
- auxiliary substances not classified as dangerous
- sodium hydroxide

	Identification	Hazardous ingredient/classification	Concentration	
CAS: WE:	68891-38-3 500-234-8 Not applicable 01-2119488639-16-XXXX	Anionic surfactants	< 3%	
Index: Registration:		Skin Irrit. 2 H315, Eye Irrit. 2 H319, Aquatic Chronic 3 H412		
CAS: WE:	85536-14-7 287-494-3	Anionic surfactants	< 2%	
Index: Registration:	Not applicable 01-2119490234-40-XXXX	Skin Corr. 1C H314, Acute Tox. 4 H302		
CAS: WE: Index: Registration:	Not available Not available No data available 01-2119513359-38-XXXX	Amphoteric surfactants	< 1.5%	
		Eye Dam. 1 H318, Aquatic Chronic 3 H412		
CAS: WE:	1310-73-2 215-185-5	Sodium hydroxide	. 10/	
Index: Registration:	011-002-00-6 01-2119457892-27-XXXX	Skin Corr. 1A H314, Met. Corr. 1 H290	< 1%	
CAS: WE: Index: Registration:	111-30-8 203-856-5 605-022-00-X 01-2119455549-26-XXXX	Preservative substance (Glutaral)		
		Acute Tox. 3 H301, Acute Tox. 2 H330, Skin Corr. 1B H314, Eye Dam 1 H318, Resp. Sens. 1 H334, Skin Sens. 1 H317, Aquatic Acute 1 H400, Aquatic Chronic 3 H411, Met. Corr. 1 H290	< 0.1%	

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:

None.

#### Skin contact:

If product comes in contact with the skin, immediately remove all contaminated clothing and flush exposed area with large amounts of water.

#### Eye contact:

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

#### Ingestion:

DO NOT induce vomiting. Give lots of water to drink. DO NOT give any neutralizing agents. Immediately get medical attention and show this SDS or label.

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

#### Inhalation:

Doesn't cause any irritation of the upper respiratory tract.

#### Skin:

Irritates skin.

#### Eyes:

Causes severe eye irritation.

#### Ingestion:

May cause irritation of the mucous membrane.

#### 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:

Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

## Unsuitable extinguishing media:

There are not any known extinguishing media that you shouldn't use.

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

Product is non-flammable. May exhale carbon monoxide when burning.

## 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 fire is out. The after burning residues should be removed

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

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

#### For non-emergency personnel:

Protective chemical-proof gloves (0.11 mm thick), gloves, safety glasses.

## For emergency responders:

Protective clothes, protective chemical-proof gloves (0.11 mm thick), safety glasses.

#### 6.2. Environmental precautions:

Avoid discharging the product into sewage system and onto the ground.

#### 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  $5^{\circ}\text{C}$  -  $35^{\circ}\text{C}$  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):

Anionic surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified.

Anionic surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified.

Amphoteric surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified

Sodium hydroxide (data for highly concentrated substance):

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

Glutaral (data for highly concentrated substance):

NDS: 0.4 mg/m<sup>3</sup> NDSCh: 0.6 mg/m<sup>3</sup> NDSP: not identified.

DNEL /PNEC values for individual chemical substances (according to SDS or Chemical Safety Report): Anionic surfactants (data for highly concentrated substance):

#### DNFI

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect,
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,
Value: 2750 mg/kg
Value: 175 mg/m³
Value: 1650 mg/kg
Value: 52 mg/m³
Value: 52 mg/m³
Value: 15 mg/m³

## PNEC:

Aqua (fresh water): 0.24 mg/l
Aqua (marine water): 0.024 mg/l
Sediment (fresh water): 5.45 mg/kg
Sediment (marine water): 0.545 mg/kg
Sewage treatment plant: 10 mg/l
Soil: 0.946 mg/kg

#### Anionic surfactants (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect,
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,
Value: 170 mg/kg
Value: 12 mg/m³
Value: 12 mg/m³
Value: 3 mg/m³
Value: 3 mg/m³
Value: 3 mg/m³
Value: 3 mg/m³

## PNEC:

Aqua (fresh water): 0.287 mg/l
Aqua (marine water): 0.0287 mg/l
Sediment (fresh water): 0.287 mg/kg
Sediment (marine water): 0.287 mg/kg
Sewage treatment plant: 3.43 mg/l
Intermittent release: 0.0167 mg/l
Soil: 35 mg/kg

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#### Amphoteric surfactants (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,
Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: systemic effect,
Group: consumers, Exposure time: long-term, Exposure route: dermal, Type of effect: systemic effect,
Value: 12.5 mg/kg
Value: 44 mg/m³
Value: 7.5 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Type of effect: systemic effect,
Value: 7.5 mg/kg

#### PNEC:

Aqua (fresh water): 0.0135 mg/l
Aqua (marine water): 0.00135 mg/l
Sediment (fresh water): 1 mg/kg
Sediment (marine water): 0.1 mg/kg
Sewage treatment plant: 3000 mg/l
Soil: 0.8 mg/kg

#### Sodium hydroxide (data for highly concentrated substance):

**DNEL**, **PNEC**: not identified.

#### Glutaral (data for highly concentrated substance):

#### DNEL:

Group: workers, Exposure time: long-term, Exposure route: inhalation, Type of effect: local effect, Value: 0.25 mg/m<sup>3</sup>

#### PNEC:

Aqua (fresh water): 0.0025 mg/l
Aqua (marine water): 0.00025 mg/l
Sediment (fresh water): 5.27 mg/kg
Sediment (marine water): 0.527 mg/kg
Sewage treatment plant: 0.8 mg/l
Intermittent release: 0.006 mg/l
Soil: 0.3 mg/kg

**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:**

Not needed.

## HAND PROTECTION:

It is recommended to wear protective chemical-proof gloves (0.11 mm thick)

#### **EYE/FACE PROTECTION:**

It is recommended to wear safety glasses.

## **SKIN PROTECTION:**

Not needed.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

Appearance: Green coloured sticky liquid

Odour: Characteristic for aroma composition used in production

Odour threshold: No data available

**pH**: 14 ± 1

Melting point: No data available Freezing point: Initial boiling point: No data available No data available **Boiling range:** No data available Flash point: No data available Evaporation rate: No data available Flammability (solid, gas): No data available Upper flammability limit: No data available Lower flammability limit: No data available **Upper explosive limit:** No data available Lower explosive limit: No data available Vapour pressure: No data available Vapour density: No data available  $1.047 \pm 0.020 \text{ g/cm}^3$ Relative density:

Solubility:

A) Water: soluble

B) Organic solvent: No data available

Partition coefficient N-Octan: No data available Partition coefficient Water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available

**Viscosity**: min. 120 sec (Ford cup with  $4 \pm 0.015$  mm diameter)

Explosive properties: No data available
Oxidising properties: No data available

9.2. Other information:

Refractive index: 16.4% Brix ± 5%

## **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:

Not applicable.

#### 10.4 Conditions to avoid:

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

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<sup>\* -</sup> 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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10.5 Incompatible materials:

None.

10.6 Hazardous decomposition products:

Carbon monoxide.

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

## 11.1 Information on toxicological effects:

**ACUTE TOXICITY:** 

**Inhalation:** none.

Skin contact: causes skin irritation.

Eye contact: causes serious eye damage.

Digestive system: may cause irritation of the mucous membrane after swallowing.

ATEmix = 73869 (acute toxicity, orally)

# DETAILS OF PARTICULAR COMPONENTS (according to substances SDS): Anionic surfactants (data for highly concentrated substance):

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

Skin irritation and serious eye damage detected.

No allergic effect.

## Anionic surfactants (data for highly concentrated substance):

**LD50:** 1470 mg/kg (rat, orally) **LD50:** 2000 mg/kg (rat, dermal)

Slightly irritates skin. Severe eye irritation.

## Amphoteric surfactants (data for highly concentrated substance):

**LD50:** > 620 mg/kg (rat, dermal) **LD50:** 2430 mg/kg (rat, orally)

Irritates skin.

Causes serious eye damage.

## Sodium hydroxide (data for highly concentrated substance):

**LD50:** 500 mg/kg (rat, orally)

Very harmful after swallowing. Causes burns in mouth, throat and stomach. Risk of gastrointestinal perforation.

Corrosive effects on skin. Burns, deep wounds and skin necrosis.

Serious and irreversible eye damage. Risk of blindness.

No allergic effects.

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No mutagenic effects.

No carcinogenic effects.

Corrosive effects on respiratory system. Causes irritation of the mucous membrane.

#### Glutaral (data for highly concentrated substance):

 LD50:
 200 mg/kg
 (rat, orally)

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

 LD50:
 > 1749 mg/kg
 (rabbit, dermal)

 NOEL:
 5 mg/kg/d
 (90 days)

ATE values:

Vapour inhalation: 666.7 mg/l Aerosol inhalation: 0.96 mg/l

Corrosive to skin. Seriously damages eyes.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity:

#### Data for the mixture ingredients:

## Anionic surfactants (data for highly concentrated substance):

LC50: > 1-10 mg/l(fish) (OECD 203) NOEC: (fish) (literature data) 1.2 mg/l > 1-10 mg/l/48h (OECD 202) EC50: (daphnia) NOEC: > 0.1-1 mg/l/21 days (daphnia) (OECD 211) > 10-100 mg/l/72h (OECD 201) EC50: (algae)

EC10: 10000 mg/l (bacteria)

## Anionic surfactants (data for highly concentrated substance):

**EC50:** 1-10 mg/l/96h (fish, Lepomis macrochirus) **EC50:** 1-10 mg/l/48h (daphnia, Daphnia magna)

**IC50**: 1-10 mg/l (algae)

## Amphoteric surfactants (data for highly concentrated substance):

**EC50:** 1.9 mg/l/96h (daphnia) (OECD 202) **ErC50:** 2.4 mg/l/72h (algae)

**ErC50**: 2.4 mg/l/72h (algae) **ErC50**: 7 mg/l/72h (daphnia) (ISO)

1.11 mg/l/96h (OECD 203) LC50: (fish) (bacteria) 3000 mg/l/16h EC50: (ISO) NOEC: 0.3 mg/l/21days (daphnia (OECD 211) NOEC: 0.135 mg/l/100days (OECD 210) (fish)

NOECr: 0.6 mg/l/72h (algae)

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## Sodium hydroxide (data for highly concentrated substance):

Toxic for animals, aquatic organisms and bacteria. May adversely affect plant growth.

**LC0:** 157 mg/l/48h (fish) **LC50:** 189 mg/l/48h (fish) **LC100:** 213 mg/l/48h (fish)

#### Glutaral (data for highly concentrated substance):

 EC50:
 5 mg/l/48h
 (daphnia)

 IC50:
 0.81 mg/l/120h
 (algae)

 LC50:
 5.4 mg/l/96h
 (fish)

 NOEC:
 0.24 mg/l/21 days
 (daphnia)

## 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
Anionic surfactants	OECD 301 A	28 days	> 70%
Anionic surfactants	OECD 301 B, ISO 9439	28 days	> 60%
Amphoteric surfactants	OECD 306	28 days	76%
Amphoteric surfactants	ISO	60 days	80-90%
Amphoteric surfactants	EU 92/69/EWG	28 days	95%
Sodium hydroxide	Easily biodegradable	Easily biodegradable	Easily biodegradable
Glutaral	OECD 301 D	28 days	74%

## 12.3. Bioaccumulative potential:

Bioaccumulation is incredible.

Data based on mixture ingredients.

## 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: GRAN REX

14.1. UN Number:Not applicable.14.2. UN proper shipping name:Not applicable.14.3. Transport hazard class(es):Not applicable.14.4. Packing group:Not applicable.

**14.5. Environmental hazards:** No.

**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**

not applicable

## **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 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).

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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:

Anionic surfactants: A Chemical Safety Assessment has been carried out. Anionic surfactants: A Chemical Safety Assessment has been carried out. Amphoteric surfactants: A Chemical Safety Assessment has been carried out. Sodium hydroxide: A Chemical Safety Assessment has been carried out.

Glutaral: Not applicable.

#### **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:

Acute Tox. 2 Acute toxicity, category 2. Acute Tox. 3 - Acute toxicity, category 3. Acute Tox. 4 - Acute toxicity, category 4.

Aquatic Acute 1 - Hazardous to the aquatic environment - Acute Hazard, category 1 **Aquatic Chronic 3** - Hazardous to the aquatic environment - Chronic Hazard, category 3.

Met.Corr 1 - Substance/Mixture is corrosive to metals, category 1

Eye Dam. 1 - Serious eye damage, category 1. Resp. Sens 1 - Allergic respiratory reaction, category 1. Skin Corr. 1A - Corrosive to skin, category 1B.

Skin Corr. 1B - Corrosive to skin, category 1B. Skin Corr. 1C - Corrosive to skin, category 1B. Skin Irrit. 2 - Causes skin irritation, category 2. Skin Sens 1 - Allergic skin reaction, category 1.

- May be corrosive to metals. H290

 Toxic if swallowed. H301 H302 - Harmful if swallowed.

- Causes severe skin burns and eye damage. H314

- Causes skin irritation. H315

H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H330 - Fatal if inhaled.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H400 - Very toxic to aquatic life.

- Toxic to aquatic life with long lasting effects. H411 H412 - Harmful to aquatic life with long lasting effects.

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More information on the product can be found on the specific technical data sheet which is available on 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.

#### **Expiry date:**

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

## Changes compared to the previous version:

- section 2.2 (P280)

Updated cards versions are now available on www.tenzi.pl

This Safety Data Sheet contains 13 pages. Changes in the content by unauthorized people is prohibited.

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