

## TIRE & RUBBER

### Safety Data Sheet

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

- 1.1 Product identifier:** TIRE & RUBBER
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Ready to use milky product, designed for strengthening plastic and rubber elements.
- 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:**  
**Flam Liq. 3 H226** – Flammable liquid and vapour.

**2.2. Label elements:**  
(According to 1272/2008/EC\*)

Hazard symbols:



**Signal words:**  
WARNING

**Hazard statements:**  
**H226** – Flammable liquid and vapour.

**Precautionary statements:**  
**P210** – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**2.3. Other hazards:**  
Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

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#### SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

**3.1. Substances:**

Not applicable.

**3.2. Mixtures:**

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

- < 20% alcohol
- < 5% non-ionic surfactants
- auxiliary substances not classified as dangerous

Identification	Hazardous ingredient/classification	Concentration
CAS: No data available WE: 920-901-0 Index: Not applicable Registration: 01-2119456810-40-XXXX	<b>Hydrocarbons, C11-C13, isoalkanes, &lt;2% aroma</b>  Asp. Tox. 1 H304	< 22%
CAS: 64-17-5 WE: 200-578-6 Index: 603-002-00-5 Registration: 01-2119529230-52-XXXX	<b>Ethanol</b>  Flam Liq. 2 H225	< 12%
CAS: 67-63-0 WE: 200-661-7 Index: 603-117-00-0 Registration: 01-2119529230-52-XXXX	<b>Isopropanol</b>  Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	< 8%
CAS: No data available WE: 919-857-5 Index: Not applicable Registration: 01-2119463258-33-XXXX	<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, &lt;2% aroma</b>  Flam Liq. 3. H226, Asp. Tox. 1 H304, STOT SE 3 H336	< 3%

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

#### 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.

**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:**

DO NOT induce vomiting. Drink a lot of fresh water and don't take any neutralizing agents. Get medical attention and show them product's label or this SDS.

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

**Inhalation:**

In case of long-time exposure to product's vapours, it may cause irritation of the upper respiratory tract.

**Skin:**

May cause skin irritation to allergic people.

**Eyes:**

May cause eye irritation.

**Ingestion:**

May cause irritation 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:**

foam, extinguishing powder, sand, carbon dioxide, atomized water.

**Unsuitable extinguishing media:**

Do not use water jet on liquid's surface.

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

Product is easily 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 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, self-contained breathing apparatus, protective chemical-proof gloves (0.11 mm thick), safety glasses.

#### 6.2. Environmental precautions:

Avoid discharge into drains, watercourses or 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).

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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.

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

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):**

**NDS, NDSCh, NDSP:** unspecified

**Ethanol (data for highly concentrated substance):**

**NDS:** 1900mg/m<sup>3</sup>

**NDSCh:** not identified.

**NDSP:** not identified.

**Isopropanol (data for highly concentrated substance):**

**NDS:** 900 mg/m<sup>3</sup>

**NDSCh:** 1200 mg/m<sup>3</sup>

**NDSP:** not identified.

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):**

**NDS, NDSCh, NDSP:** unspecified

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

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):**

**DNEL, PNEC:** not identified.

**Ethanol (data for highly concentrated substance):**

**DNEL:**

Group: workers, Exposure time: long-term, Exposure route: dermal,	Value: 343 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation,	Value: 950 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: dermal,	Value: 206 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation,	Value: 114 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: ingestion,	Value: 87 mg/kg

**PNEC:**

Aqua (fresh water):	0.96 mg/l
Aqua (marine water):	0.79 mg/l
Sediment (fresh water):	3.60 mg/kg
Soil:	0.63 mg/kg

**Isopropanol (data for highly concentrated substance):**

**DNEL:**

Group: workers, Exposure time: long-term, Exposure route: dermal,	Value: 888 mg/kg
Group: workers, Exposure time: long-term, Exposure route: inhalation,	Value: 500 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: dermal,	Value: 319 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation,	Value: 89 mg/m <sup>3</sup>
Group: consumers, Exposure time: long-term, Exposure route: ingestion,	Value: 29 mg/kg

**PNEC:**

Aqua (fresh water):	140.9 mg/l
Aqua (marine water):	140.9 mg/l
Sediment (fresh water):	552 mg/kg
Soil:	28 mg/kg

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):**

**DNEL:**

Group: workers, Exposure time: chronic, Exposure route: dermal, Type of effect: systemic effect,	Value: 300 mg/kg/day
Group: workers, Exposure time: chronic, Exposure route: inhalation, Type of effect: systemic effect,	Value: 1500 mg/m <sup>3</sup>
Group: consumers, Exposure time: chronic, Exposure route: dermal, Type of effect: systemic effect,	Value: 300 mg/kg/day
Group: consumers, Exposure time: chronic, Exposure route: inhalation, Type of effect: systemic effect,	Value: 900 mg/m <sup>3</sup>
Group: consumers, Exposure time: chronic, Exposure route: ingestion, Type of effect: systemic effect,	Value: 300 mg/kg/day

**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:**

In case of long-term exposure, it is recommended to wear protective chemical-proof gloves (0.11 mm thick).

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**EYE/FACE PROTECTION:**

Not needed.

**SKIN PROTECTION:**

Not needed.

#### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<b>Appearance:</b>	Milky liquid
<b>Odour:</b>	Characteristic (dissolvent)
<b>Odour threshold:</b>	No data available
<b>pH:</b>	8 ± 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>	25°C (based on similar product)
<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>	0.880 ± 0.020 g/cm <sup>3</sup>

**Solubility:**

<b>A) Water:</b>	not 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>	kinematic 43 mm <sup>2</sup> /s
<b>Explosive properties:</b>	No data available
<b>Oxidising properties:</b>	No data available

**9.2. Other information:**

**Refractive index:** Not identified 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).

Capability to sustain burning.

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#### SECTION 10. STABILITY AND REACTIVITY

**10.1 Reactivity:**

No data available.

**10.2 Chemical stability:**

Stable under recommended storage conditions (see section 7).

**10.3 Possibility of hazardous reactions:**

No data available.

**10.4 Conditions to avoid:**

Avoid heavily warmed rooms without ventilation and long-term exposure to sunlight. Avoid any source of ignition.

**10.5 Incompatible materials:**

Strong oxidizers.

**10.6 Hazardous decomposition products:**

Not known.

#### SECTION 11. TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:**

**ACUTE TOXICITY:**

**Inhalation:** in case of long-time exposure to product's vapours, it may irritate upper respiratory tract.

**Skin contact:** may cause skin irritation to allergic people.

**Eye contact:** may cause eye irritation.

**Digestive system:** may cause irritation of the mucous membranes.

**DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):**

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):**

**LD50:** >5000 mg/kg (rat, orally) (OECD 401)

**LD50:** >5000 mg/kg (rabbit, dermal) (OECD 402)

**LC50:** >5000 mg/m<sup>3</sup>/8h (rat, inhalation) (OECD 403)

Slightly irritates skin after long-time exposure (OECD 404).

May cause slight eye irritation (OECD 405).

Vapour concentration above recommended exposure levels result in irritating eyes and respiratory system.

May cause drowsiness, dizziness, headache and various anesthetic effects.

Long-time or repeated exposure to substances with low viscosity levels may cause skin degreasing which may result in dermatitis.

**Ethanol (data for highly concentrated substance):**

**LD50:** 6200 mg/kg

**LC50:** 95.6 mg/l/4h

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

**LD50:** > 2000 mg/kg (acute toxicity, orally)  
**LD50:** > 2000 mg/kg (acute toxicity, dermal)  
**LC50:** >5 mg/l

Doesn't cause skin irritation.  
Slight eye irritation.  
No allergic effects.  
High density vapours may cause narcotic effects.  
Negative Ames test.  
No carcinogenic effects.  
Doesn't cause any reproductivity problems.

#### Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):

**LD50:** >5000 mg/kg (rat, orally) (OECD 401)  
**LD50:** >5000 mg/kg (rabbit, dermal) (OECD 402)  
**LC50:** >4951 mg/m<sup>3</sup>/4h (rat, inhalation) (OECD 403)

Slight skin and eye irritation.  
Vapour concentration above recommended exposure levels result in irritating eyes and respiratory system.  
May cause drowsiness, dizziness, headache and various anesthetic effects.  
Long-time or repeated exposure to substances with low viscosity levels may cause skin degreasing which may result in dermatitis.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity:

#### Data for the mixture ingredients:

#### Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):

**EL0:** 1000 mg/l/48h (daphnia, Daphnia magna)  
**EL0:** 1000 mg/l/72h (algae, Pseudokirchneriella subcapitata)  
**LL0:** 1000 mg/l/96h (fish, Oncorhynchus mykiss)  
**NOERL:** 1 mg/l/21days (daphnia, Daphnia magna)  
**NOERL:** 1000 mg/l/72h (algae, Pseudokirchneriella subcapitata)

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

**LC50:** 8140 mg/l/48h (fish)  
**EC50:** 9268-14221 mg/l/48h (daphnia)  
**EC50:** 5000 mg/l/7days (algae)

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

**LC50:** > 100 mg/l/48h (fish)  
**EC50:** > 100 mg/l/48h (daphnia)  
**EC50:** > 100 mg/l/72h (algae)



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**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):**

<b>EL0:</b>	1000 mg/l/48h	(daphnia, Daphnia magna)
<b>NOERL:</b>	100 mg/l/72h	(algae, Pseudokirchneriella subcapitata)
<b>EL50:</b>	1000 mg/l/72h	(algae, Pseudokirchneriella subcapitata)
<b>LL50:</b>	>1000 mg/l/96h	(fish, Oncorhynchus mykiss)

**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:**

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):**

Biodegradability: 31.3% after 28 days.

Substance	Method	Length	Degraded percentage
Ethanol	Easily biodegradable	Easily biodegradable	Easily biodegradable
Isopropanol	No data available	10 days	> 90%

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):**

Product is easily biodegradable.

**12.3. Bioaccumulative potential:**

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma (data for highly concentrated substance):**

No data available.

**Ethanol (data for highly concentrated substance):**

Log Pow: 0.05

**Isopropanol (data for highly concentrated substance):**

Log Pow: 0.05

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma (data for highly concentrated substance):**

No data available.

**12.4. Mobility in soil**

No data available.

**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.

### SECTION 13. DISPOSAL CONSIDERATIONS

**RESIDUES AND WASTES:**

DO NOT mix with other liquid wastes.

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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: TIRE & RUBBER

- 14.1. UN Number: 1993.  
14.2. UN proper shipping name: FLAMMABLE LIQUID, N.O.S. (ethanol, isopropanol)  
14.3. Transport hazard class(es): 3  
14.4. Packing group: III  
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



### 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:**

**Hydrocarbons, C11-C13, isoalkanes, <2% aroma:**

A Chemical Safety Assessment has been carried out.

**Product created from ethanol and Isopropanol:**

A Chemical Safety Assessment has been carried out.

**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclical, <2% aroma:**

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.

Because of the flammable properties of the mixture, classification of chemical mixture was based on flash point and flame sustainability tests. Rest of the classification was done with calculation methods, based on the content of hazardous ingredients in the mixture.

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

<b>STOT SE 3</b>	– Specific target organ toxicity - Single exposure STOT, category 3.
<b>Flam Liq. 3</b>	– Flammable liquid and vapour, category 3.
<b>Flam Liq. 2</b>	– Flammable liquid and vapour, category 2.
<b>Eye Irrit. 2</b>	– Causes serious eye irritation, category 2.
<b>Asp. Tox. 1</b>	– May be fatal if swallowed and enters airways.
<b>H225</b>	– Highly flammable liquid and vapour.
<b>H226</b>	– Flammable liquid and vapour.
<b>H304</b>	– May be fatal if swallowed and enters airways.
<b>H319</b>	– Causes severe skin burns and eye damage.
<b>H336</b>	– May cause drowsiness or dizziness.

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.

#### Expiry date:

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

This Safety Data Sheet contains 11 pages. Changes in the content by unauthorized people is prohibited.