

ROLLWAX**Material Safety Data Sheet (MSDS)**

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Version: 1.0

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier: ROLLWAX**

1.2 Relevant identified uses of the substance or mixture and uses advised against: Polymer impregnation for vehicles with high durability. It supports the drying process. Recommended for use in both low and elevated temperatures.

1.3 Details of the supplier of the safety data sheet:

TENZI Sp. z o.o., 72-002 Dołuje, Skarbimierzyce 20, e-mail: info@tenzi.pl, www.tenzi.pl, tel. +48 91 3119777, fax. +48 91 3119779 E-mail address for a competent person responsible for MSDS: 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.

Skin Irrit. 2 H315 – Causes skin irritation.

Eye Dam. 1 H318- Causes serious eye damage.

Aquatic Chronic 2 H411 – Toxic to aquatic life with long lasting effects.

2.2. Label elements

According to 1272/2008/EC*

Hazard symbols



and signal words **DANGER**

Hazard statements:

H226- Flammable liquid and vapour.

H315 – Causes skin irritation.

H318- Causes serious eye damage.

H411 – Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 – Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

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

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 or doctor/physician.

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

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3.2 Mixture

Composition (according to: 648/2004/EC): <5% Cationic surfactant, <25% Organic solvents, fragrance composition; excipients

Product / ingredient name	Concentration [% weigh]	CAS / EC	Index-No.	REACH registration number	Classification
					Regulation (EC) No. 1272/2008 [CLP]
Isobutyl alcohol	< 10	78-83-1 201-148-0	603-108-00-1	01-21194846 09-23-XXXX	Flam Liq. 3. H226, Skin Irrit 2 H315, Eye Dam 1 H318, STOT SE 3 H336, STOT SE 3 H335,
Isopropyl alcohol	< 9	67-63-0 200-661-7	603-117-00-0	01-21194575 58-25-XXXX	Eye Irrit. 2 H319, Flam Liq. 2. H225, STOT SE 3 H336
Cationic surfactant	< 5	68783-78-8 272-207-6	---	---	Skin corr. 1B H314, Aquatic Acute 1 H400, Aquatic Chronic 1 H410
Butoxydiglycol	< 5	112-34-5 ---	603-096-00-8	01-21194751 04-XXXX	Eye Irrit. 2 H319

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

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation– In case of inhalation poisoning symptoms (cough, dyspnea, dizziness) move to fresh air. Lay patient down in semi-recumbent posture, physical activity may cause pulmonary edema. Keep warm and rested. Get medical attention.

Skin contact– If product comes in contact with the skin immediately remove all contaminated clothing and flush exposed area with large amounts of water. Obtain medical attention if skin reaction occurs.

Eye contact- Immediately flush eyes with running water at least 15 minutes keeping eyelids open. Get medical attention

Ingestion- DO NOT induce vomiting. Give a lot of water to drink. DO NOT give any neutralizing agents. Immediately contact a doctor and show this MSDS or label.

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

Inhalation– Long-term exposures or un-well ventilated area may cause: upper respiratory tract irritation, drowsiness and dizziness.

Skin – Causes skin irritation.

Eyes – Causes serious eye damage.

Ingestion– if swallowed, may cause irritation of the mucous membrane.

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

Obtain medical attention. Self-contained eye wash or shower should be readily available.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: carbon dioxide, dry extinguishing agent, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

Extinguishing media which shall not be used for safety reason: Do not use solid water streams.

5.2. Special hazards arising from the substance or mixture

Flammable liquid and vapor.

5.3. Advice for firefighters

Firefighters should wear full protective clothing and self-contained breathing apparatus. In case of fire warn the people

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nearby. Evacuate unprotected and untrained personnel from hazard area. 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

For non-emergency personnel: self-contained breathing apparatus, protective gloves, safety glasses

For emergency responders: self-contained breathing apparatus, protective clothes, protective gloves, safety glasses.

Avoid direct contact with skin and eyes; Provide adequate ventilation.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Prevent spills from entering sewers, surface water or groundwater. If it is possible confine and contain the spill by closing liquid flow, damage container put into protect leak proof wrapping. For large spill make a dike around the outside edges of the spill. Clean-up materials store for disposal as hazardous waste. Decontaminate polluted area with water. For small spill use absorbent materials (sand solid, sawdust, fines limestone) and store 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

Please note that you need to be carefully while working with this product. Use personal protection recommended in section 8.

Mix only with water. DO NOT mix with 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.

After usage keep container tightly closed. Keep away from unauthorized people.

Use only adequate ventilation.

7.2. Conditions for safe storage, including any incompatibilities

Store in a tightly close, original plastic container. Store this product in dry environment that will be maintained at temperature between 5⁰C - 35⁰C. Store in good ventilated area with easy clean alkali resistant floor. DO NOT expose to sunlight. 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

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

DNEL /PNEC values for substances (according to MSDS or Chemical Safety Report):

Isobutyl alcohol (data for high concentrations substance):

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 310 mg/m³, Group: Workers, Type of effect: local effect

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 55 mg/m³, Group: Consumers, Type of effect: local effect

DNEL Exposure frequency: Long term, Exposure route: oral, Value: 25 mg/kg/bw/day, Group: Consumers

PNEC Aqua (fresh water): 0,4 mg/l

PNEC Aqua (marine water): 0,04 mg/l

PNEC Aqua (mixed water): 0,11 mg/l

PNEC Sediment (freshwater): 1,52 mg/kg

PNEC Sediment (marine water): 0,152mg/kg

PNEC Soil: 0,0699 mg/kg

PNEC Sewage treatment plant: 10 mg/l

Isopropyl alcohol(data for high concentrations substance):

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 888 mg/kg , Group: Workers

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DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 500 mg/m³, Group: Workers
DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 319 mg/kg bw/day, Group: Consumers
DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 89 mg/m³, Group: Consumers
DNEL Exposure frequency: Long term, Exposure route: oral, Value: 29 mg/kg/bw/day, Group: Consumers
PNEC Aqua (fresh water): 140,9 mg/l
PNEC Aqua (marine water): 140,9 mg/l
PNEC Sediment (freshwater): 552 mg/kg
PNEC Soil: 28 mg/kg

Cationic Surfactant (data for high concentrations substance):
No data available

Butoxydiglycol (data for high concentrations substance):
DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 20 mg/kg bw/day, Group: Workers
DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 67,5 mg/m³, Group: Workers
DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 67,5 mg/m³, Group: Workers,
DNEL Exposure frequency: Acute, Exposure route: inhalation, Value: 50,6 mg/m³, Group: consumers, Type of effect:
local effect
DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 10 mg/kg bw/day, Group: consumers
DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 7,5 mg/kg bw/day, Group: consumers, Type of
effect: systemic effect
DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 34 mg/m³, Group: consumers
DNEL Exposure frequency: Long term, Exposure route: oral, Value: 1,5 mg/kg/day, Group: consumers
DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 34 mg/m³, Group: consumers, Type of effect:
local effect
PNEC Aqua (fresh water) 1 mg/l
PNEC Aqua (marine water) 0,1 mg/l
PNEC Sediment (freshwater) 4 mg/kg
PNEC Sediment (marine water) 0,4 mg/kg
PNEC Soil 0,4 mg/kg

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

8.2. Exposure controls**Personal protective equipment**

Personal protection clothing and equipment should be in accordance to Ordinance of the Minister of Economy from 21st December 2005 on essential requirements of personal protection measures (Journal of Law No. 259, item 2173):

RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment - masks with gas and vapour protection

HAND PROTECTION: Chemical-resistant (alkali resistant) gloves

EYE/FACE PROTECTION: When working with concentrate goggles are required

SKIN PROTECTION: Protective clothing

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

APPEARANCE/FORM: – navy blue liquid

ODOUR – characteristic for this composition

ODOUR THRESHOLD - not identified

pH – 5±1

MELTING/FREEZING POINT: not identified

INITIAL BOILING POINT AND BOILING RANGE: not identified

FLASH POINT: 36⁰C

EVAPORATION RATE: not identified

FLAMMABILITY (SOLID,GAS): not identified

UPPER/LOWER FLAMMABILITY (UEL/LEL): not identified

VAPOUR PRESSURE: not identified

VAPOUR DENSITY: not identified

RELATIVE DENSITY: 0,960±0,020 g/cm³

SOLUBILITY:

a) WATER – soluble

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b) ORGANIC SOLVENT – not identified
PARTITION COEFFICIENT N-OCTANOL/WATER: – not identified
AUTO-IGNITION TEMPERATURE: not identified
DECOMPOSITION TEMPERATURE: not identified
VISCOSITY: no data available
EXPLOSIVE PROPERTIES: not identified
OXIDISING PROPERTIES: not identified

9.2. Other information

REFRACTIVE INDEX –23,5 % 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)

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

Flammable liquid and vapor.

10.2 Chemical stability

Stable under recommended storage conditions (see point 7)

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid

Avoid storage unprotected from heat and not well-ventilated area. Avoid long-term expose to sunlight.

10.5 Incompatible materials

Avoid contact with bases and oxidising agents.

10.6 Hazardous decomposition products

Incomplete combustion can release dangerous gases containing carbon monoxide and carbon dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****ACUTE TOXICITY:**

- **INHALATION** : In case of prolonged exposure can cause irritation of the upper respiratory tract

-**DIGESTIVE SYSTEM**: If swallowed, may cause irritation of the mucous membrane.

- **SKIN CONTACT**: Causes skin irritation.

- **EYE CONTACT**: Causes serious eye damage.

DETAILS OF PARTICULAR COMPONENTS (according to substances's MSDS)**Isobutyl alcohol (data for high concentrations substance):**

LD50 2830 mg/kg (oral, rat)

LC50 18,2 mg/dm³ mg/kg (inhalation)

LD50 2000-2460 mg/kg (skin)

Causes skin irritation.

Causes eyes irritation.

NOAEL 7,5 mg/l air (reproductive toxicity)

NOAEL 7,5 mg/l/day inhalation

NOAEL 316 mg/kg/day oral

Isopropyl alcohol (data for high concentrations substance):

LD50> 2000 mg/kg (oral, data for 100% Isopropyl alcohol)

LD50> 2000 mg/kg (dermal, data for 100% Isopropyl alcohol)

LC50 (presumably) more than 5 mg / l (inhalation, for 100% Isopropyl alcohol)

Serious eye damage/eye irritation: Irritant for eyes

Skin corrosion/irritation: Nonirritant for skin

Skin sensitisation: not sensitizing (Guinea pig, Test for 100% Isopropyl alcohol)

Germ cell mutagenicity: Ames test negative (for 100% Isopropyl alcohol)

Carcinogenicity: not carcinogenic effects

Reproductive toxicity: no effect on reproductive

Cationic Surfactant (data for high concentrations substance):

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LD50:> 5000 mg/kg (rat)
Skin sensitisation: Causes skin burns
Butoxydiglycol (data for high concentrations substance):
LD:50 3384 (rat, oral)
LD50: 2764 mg/kg (rabbit, dermal)
Skin corrosion/irritation: slightly irritant (rabbit)
Serious eye damage/eye irritation: irritant (rabbit)
Respiratory or skin sensitisation: Not sensitising
Germ cell mutagenicity: No adverse effects were observed
Reproductive toxicity: No adverse effects were observed
Developmental toxicity: No adverse effects were observed
Specific target organ toxicity (repeated exposure): If ingested large doses may result in kidney damage

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity****DETAILS OF PARTICULAR COMPONENTS:****Isobutyl alcohol (data for high concentrations substance):**

Toxicity:

-fish: LC50 1430 mg/l/96h

-Daphnia: Daphnia magna: EC50 1100 mg/l/48h

-algae: EC50 2300 mg/l/72h

Inhibiting the growth of bacteria colonies: 1225 mg/l/15 min

Isopropyl alcohol (data for high concentrations substance):

Ecotoxicity (for 100% Isopropyl alcohol):

Toxicity for fish - *Leuciscus idus melanotus*: LC50 >100mg/l/48hToxicity for Daphnia - *Daphnia magna*: EC50 >100mg/l/48hToxicity for algae - *Scenedesmus subspicatus*: EC50 >100mg/l/72h**Cationic Surfactant (data for high concentrations substance):**

- for fish : LC50: > 0,1 - 1 mg/l/96h

- for Daphnia and other aquatic invertebrates EC50: > 0,1 - 1 mg/l/48 h *Daphnia magna* (*Daphnia*)

- for Algae : EC50: > 0,1 - 1 mg/l/72h

Factor M : 1

Butoxydiglycol (data for high concentrations substance):- for fish: LC50: 1300 mg/l/96h (*Lepomis macrochirus*)- for Daphnia: EC50 > 100 mg/l/48h (*Daphnia magna*)- aquatic plants: EC50 > 100 mg/l/96h (*Scenedesmus subspicatus*) (OECD 201)

- microorganisms Effect on activated sludge: EC10 >1995 mg/l/0,5h (OECD 209)

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.

Isobutyl alcohol (data for high concentrations substance):

The substance decomposes under natural conditions.

COD - 2600 mg / g

BOD5 - 65-90% depending on the conditions

BOD20 - up to 100% inclusive, depending on the medium used

Photodegradation: $t_{1/2} = 3.5$ h**Isopropyl alcohol (data for high concentrations substance):**

Isopropyl alcohol is substantially biodegradation processes:> 70% after 10 days

Cationic Surfactant (data for high concentrations substance):

Not readily biodegradable.

Method: OECD Test Guideline 301D.

Butoxydiglycol (data for high concentrations substance):

Readily Biodegradable (acc. to OECD)

80-90% BOD for ThOD (28d) (OECD 301C; ISO 9408; 92/69/EWG, V, C, 4F (mixed sludge containing oxygen, according to MITI (OECD 301 C) requirements).

12.3 Bioaccumulative potential:**Isobutyl alcohol (data for high concentrations substance):**

Octanol / water: 0.8, is not expected to bioaccumulate

Isopropyl alcohol (data for high concentrations substance):

Log Pow = 0,05

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Cationic Surfactant (data for high concentrations substance):

No data available

Butoxydiglycol (data for high concentrations substance):

No data available

12.4 Mobility in soil**Isobutyl alcohol (data for high concentrations substance):**

LogKOC - 0.31 absorption should not be expected in the soil

Isopropyl alcohol (data for high concentrations substance):

No data available.

Cationic Surfactant (data for high concentrations substance):

No data available

Butoxydiglycol (data for high concentrations substance):

No data available

The product is water soluble and may spread in 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

SECTION 13. DISPOSAL CONSIDERATIONS

RESIDUES AND WASTES

DO NOT mix with other liquid wastes. DO NOT empty into drain. 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 container (or equivalent) 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: ROLLWAX

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: Product is dangerous for environment

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 label: 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

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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)

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 substance:

Isobutyl alcohol: A Chemical Safety Assessment has been carried out.

Isopropyl alcohol: A Chemical Safety Assessment has been carried out.

Cationic Surfactant: no data available

Butoxydiglycol: A Chemical Safety Assessment has been carried out.

SECTION 16. OTHER INFORMATION

Information above are based on current knowledge of product on 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 Risk (R) phrases and H symbols from Section 2 and 3:

Skin Irrit. 2 - Causes skin irritation, category 2

Skin Corr. 1B- Corrosive to skin, category 1B

Eye Dam. 1- Serious eye damage, category 1

Aquatic Chronic 2 - Hazardous to the aquatic environment, Chronic category 2

Flam Liq. 3 - Flammable liquid, category 3

STOT SE 3-Specific target organ toxicity - Single exposure STOT, Category 3.

Eye Irrit. 2-Causes eye irritation, category 2

Aquatic Acute 1 - Hazardous to the aquatic environment, Acute category 1

Aquatic Chronic 1 – Harmful to aquatic organisms, chronic category 1

Flam liq. 2- Flammable liquid, category 2

H225 - Highly flammable liquid and vapor

H226 - Flammable liquid and vapor.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H335 – May cause respiratory irritation.

H336 – May cause drowsiness or dizziness.

H400 – Very toxic to aquatic life.

H410 – Very toxic to aquatic life with long lasting effects.

H411 – Toxic to aquatic life with long lasting effects.

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.

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Expiry date: 36 months from the production date (if product is stored according to the producer recommendations)

Changes compared to the previous version:

-general update. Updated cards versions are now available on www.tenzi.pl

This Material Safety Data Sheet contains 9 pages. Changes in the content by unauthorized persons is prohibited.

Skarbimierzyce 01.06.2015