

ROLLWAX

Safety Data Sheet

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 impregnate for mechanical vehicles. Helps with the drying process and it is recommended for use in low and high temperatures.
- 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:
Flam Liq. 3 H226 – Flammable liquid and vapour.
Skin Irrit. 2 H315 – Causes skin irritation.
Eye Dam. 2 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:



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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.

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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

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% cationic surfactants
- < 25% organic solvents
- aroma composition
- auxiliary substances not classified as dangerous

Identification	Hazardous ingredient/classification	Concentration
CAS: 78-83-1 WE: 201-148-0 Index: 603-108-00-1 Registration: 01-2119484609-23-XXXX	Butyl alcohol Flam Liq. 3. H226, Skin Irrit 2 H315, Eye Dam 1 H318, STOT SE 3 H336, STOT SE 3 H335	< 10%
CAS: 67-63-0 WE: 200-661-7 Index: 603-117-00-0 Registration: 01-2119457558-25-XXXX	Isopropanol Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	< 9%
CAS: 68783-78-8 WE: 272-207-6 Index: No data available Registration: No data available	Cationic surfactants Skin Corr. 1B H314, Aquatic Acute 1 H400, Aquatic Chronic 1 H410	< 5%
CAS: 112-34-5 WE: No data available Index: 603-096-00-8 Registration: 01-2119475104-XXXX	Diethylene glycol butyl ether Eye Irrit. 2 H319	< 5%

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.

Make sure to keep him calm and warm. Get medical attention. Physical effort may cause pulmonary edema.

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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 burns or changes, 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. Give lots 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:**

After long-time exposure without proper ventilation, it may cause dizziness, drowsiness and irritation of the upper respiratory tract.

Skin:

Irritant.

Eyes:

Corrosive. Causes serious eye damage.

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:**

Extinguishing foam resistant to alcohol, carbon dioxide, extinguishing powder and dry extinguishing media.

Unsuitable extinguishing media:

Water jet.

5.2. Special hazards arising from the substance or mixture:

Easily flammable liquid and vapours.

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), self-contained breathing apparatus, safety glasses.

For emergency responders:

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

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). 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 - 30°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):

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Butyl alcohol (data for highly concentrated substance):

NDS: 100 mg/m³
NDSCh: 200 mg/m³
NDSP: not identified.

Isopropanol (data for highly concentrated substance):

NDS: 900 mg/m³
NDSCh: 1200 mg/m³
NDSP: not identified.

Cationic surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified.

Diethylene glycol butyl ether (data for highly concentrated substance):

NDS: 67 mg/m³
NDSCh: 100 mg/m³
NDSP: not identified.

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

Butyl alcohol (data for highly concentrated substance):

DNEL:

Group: workers, Exposure time: long-term, Exposure route: inhalation, Value: 310 mg/m³ (local)
Group: consumers, Exposure time: long-term, Exposure route: inhalation, Value: 55 mg/m³ (local)
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Value: 25 mg/kg/day

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

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/m³
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/m³
Group: consumers, Exposure time: long-term, Exposure route: ingestion, Value: 29 mg/kg

PNEC:

Aqua (fresh water): 0.4 mg/l
Aqua (marine water): 0.04 mg/l
Aqua (mixed waters): 0.11 mg/l
Sediment (fresh water): 1.52 mg/kg
Sediment (marine water): 0.152 mg/kg
Sewage treatment plant: 10 mg/l
Soil: 0.0699 mg/kg

Cationic surfactants (data for highly concentrated substance):

DNEL, PNEC: No data available.

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Diethylene glycol butyl ether (data for highly concentrated substance):

DNEL:

Group: workers, Exposure type: acute, Exposure route: inhalation,	Value: 101.2 mg/m ³ (local effect)
Group: workers, Exposure time: long-term, Exposure route: dermal,	Value: 20 mg/kg/1d
Group: workers, Exposure time: long-term, Exposure route: inhalation,	Value: 67.5 mg/m ³
Group: workers, Exposure time: long-term, Exposure route: inhalation,	Value: 67.5 mg/m ³ (local effect)
Group: consumers, Exposure type: acute, Exposure route: inhalation,	Value: 50.6 mg/m ³ (local effect)
Group: consumers, Exposure time: long-term, Exposure route: dermal,	Value: 10 mg/kg/1d
Group: consumers, Exposure time: long-term, Exposure route: inhalation,	Value: 34 mg/m ³
Group: consumers, Exposure time: long-term, Exposure route: ingestion,	Value: 1.25 mg/kg
Group: consumers, Exposure time: long-term, Exposure route: inhalation,	Value: 34 mg/m ³ (local effect)

PNEC:

Aqua (fresh water):	1 mg/l
Aqua (marine water):	0.1 mg/l
Sediment (fresh water):	4 mg/kg
Sediment (marine water):	0.4 mg/kg
Soil:	0.4 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:

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

HAND PROTECTION:

Protective acidic-proof gloves.
0.11 mm thick.

EYE/FACE PROTECTION:

Safety glasses.

SKIN PROTECTION:

Protective clothes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance:	dark-blue coloured liquid
Odour:	Characteristic for materials used in production
Odour threshold:	No data available
pH:	5 ± 1
Melting point:	No data available
Freezing point:	No data available
Initial boiling point:	No data available
Boiling range:	No data available
Flash point:	36°C (based on similar product)
Evaporation rate:	No data available
Flammability (solid, gas):	No data available

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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
Relative density: 0.960 ± 0.020 g/cm³

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

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:

Easily flammable liquid and vapours.

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.

10.5 Incompatible materials:

Alkali, oxidizers.

10.6 Hazardous decomposition products:

Carbon monoxide and Carbon dioxide.

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SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

ACUTE TOXICITY:

Inhalation: may cause irritation of the upper respiratory tract.

Skin contact: causes skin irritation.

Eye contact: causes serious eye damage.

Digestive system: may cause irritation of the mucous membranes.

DETAILS OF PARTICULAR COMPONENTS (according to substance's SDS):

Butyl alcohol (data for highly concentrated substance):

LD50:	2830 mg/kg	(rat, orally)
LC50:	18.2 mg/dm ³	(inhalation)
LD50:	2000-2460 mg/kg	(dermal)
NOAEL:	7.5 mg/l	(inhalation, reproductive toxicity)
NOAEL:	7.5 mg/l	(inhalation)
NOAEL:	316 mg/kg/day	(orally)

Irritates skin.
Irritates eyes.

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.

Cationic surfactants (data for highly concentrated substance):

LD50:	> 5000 mg/kg	(rat)
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Causes skin burns.

Diethylene glycol butyl ether (data for highly concentrated substance):

LD50:	3384 mg/kg	(rat, orally)
LD50:	2764 mg/kg	(rabbit dermal)

Slightly irritates skin (rabbit)
Irritates eyes (rabbit)
No allergic effects.
No mutagenic effects.
No reproductive problems.
After taking big enough dose, it may cause damage to kidneys.

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SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

Butyl alcohol (data for highly concentrated substance):

LC50: 1430 mg/l/96h (fish)
EC50: 1100 mg/l/48h (daphnia)
EC50: 2300 mg/l/72h (algae)
Halting growth of bacterial colonies: 1225 mg/l/48h

Isopropanol (data for highly concentrated substance):

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

Cationic surfactant (data for highly concentrated substance):

LC50: > 0.1 – 1 mg/l/96h (fish)
EC50: > 0.1 – 1 mg/l/48h (daphnia)
EC50: > 0.1 – 1 mg/l/72h (algae)

M factor = 1

Diethylene glycol butyl ether (data for highly concentrated substance):

LC50: 1300 mg/l/96h (fish, Lepomis macrochirus)
EC50: > 100 mg/l/48h (daphnia, Daphnia magna)
EC50: > 100 mg/l/96h (algae, Scenedesmus subspicatus) (OECD 201)
EC10: > 1995 mg/l/0.5h (microorganisms, active sediment) (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.

Data for the mixture ingredients:

Butyl alcohol (data for highly concentrated substance):

Naturally biodegradable.

ChZT: 2600 mg/g

BZT5: 65-90%

BZT20: up to 100%

Photodegradation: t/2 = 3.5h

Isopropanol (data for highly concentrated substance):

Biodegradability: >70% after 10 days.

Cationic surfactant (data for highly concentrated substance):

Hardly biodegradable, OECD 301 D.

Diethylene glycol butyl ether (data for highly concentrated substance):

Biodegradability: 80-90%, 28 days, OECD 301 C.

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12.3. Bioaccumulative potential:

Butyl alcohol (data for highly concentrated substance):

Octanol/water division: 0.8

Bioaccumulation not likely.

Isopropanol (data for highly concentrated substance):

Log Pow: 0.05

Cationic surfactant (data for highly concentrated substance):

No data available.

Diethylene glycol butyl ether (data for highly concentrated substance):

No data available.

12.4. Mobility in soil

Butyl alcohol (data for highly concentrated substance):

LogKOC: 0.31

Isopropanol (data for highly concentrated substance):

No data available.

Cationic surfactant (data for highly concentrated substance):

No data available.

Diethylene glycol butyl ether (data for highly concentrated substance):

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.

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.

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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:** Yes
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).
- 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:

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

Isopropanol: A Chemical Safety Assessment has been carried out.

Cationic surfactant: No data available.

Diethylene glycol butyl ether: A Chemical Safety Assessment has been carried out.

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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:

Aquatic Acute 1	– Hazardous to the aquatic environment - Acute Hazard, category 1
Aquatic Chronic 1	– Hazardous to the aquatic environment - Chronic Hazard, category 1.
Aquatic Chronic 2	– Hazardous to the aquatic environment - Chronic Hazard, category 2.
Flam Liq. 2	– Flammable liquid and vapour, category 2.
Flam Liq. 3	– Flammable liquid and vapour, category 3.
Eye Irrit. 2	– Causes serious eye irritation, category 2.
Eye Dam. 1	– Serious eye damage, category 1.
Skin Irrit. 2	– Causes skin irritation, category 2.
Skin Corr. 1B	– Corrosive to skin, category 1B.
STOT SE 3	– Specific target organ toxicity - Single exposure STOT, category 3.
H225	– Highly flammable liquid and vapour.
H226	– Flammable liquid and vapour.
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.

Expiry date:

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

Changes compared to the previous version:

- section 6 and 8 (gloves thickness)

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

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