

## LEDER CLEAN

### Material Safety Data Sheet (MSDS)

Creation Date 27.11.2012  
Revision Date: 02.10.2015  
Version: 1.0

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

**1.1 Product identifier: LEDER CLEAN**

**1.2 Relevant identified uses of the substance or mixture and uses advised against:** Concentrated product for cleaning heavily soiled leather surfaces.

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

TENZI Sp. z o.o., 72-002 Dołuje, Skarbimierzycze 20, e-mail: [info@tenzi.pl](mailto:info@tenzi.pl), [www.tenzi.pl](http://www.tenzi.pl), tel. +48 91 3119777, fax. +48 91 3119779 E-mail address for a competent person responsible for MSDS: [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**

Eye Dam. 1 H318 - Causes serious eye damage.

**2.2. Label elements**

According to 1272/2008/EC\*

Hazard symbols



and signal words **DANGER**

**Hazard statements:**

H318- Causes serious eye damage.

**Precautionary statements**

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

**3.2 Mixture**

**Composition (according to: 648/2004/EC):** <5% Non-ionic surfactants, <5% Phosphates, <5% Potassium soap, fragrance composition; excipients not classified as hazardous

Product / ingredient name	Concentration [% weigh]	CAS / EC	Index-No.	REACH registration	Classification
					Regulation (EC) No. 1272/2008 [CLP]

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				number	
Non-ionic surfactants	< 4	68439-54-3 polymer	---	---	Eye Dam. 1 H318, Acute Tox. 4 H302
Ethanol	< 2	64-17-5 200-578-6	603-002- 00-5	01- 21195292 30-52- XXXX	Flam Liq. 2 H225
Propan-2-ol / Isopropanol	< 1	67-63-0 200-661-7	603-117- 00-0		Flam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336
Potassium soap	< 1,5	61789-30-8 263-049-9	---	---	Skin Irrit. 2, H315, Eye Irrit. 2, H319
Potassium hydroxide	< 0,4	1310-58-3 215-181-3	019-002- 00-8	01- 21194871 36-33- XXXX	Acute Tox.4 H302, Skin Corr. 1A H314, Met. Corr. 1 H290

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. Consult a doctor in case burns or irritation occur.

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

**Ingestion**– If swallowed, DO NOT induce vomiting. Give lots of water to drink. DO NOT give any neutralizing agents. 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 work in un-well ventilated area may cause upper respiratory tract irritation.

**Skin**– Contact with skin may cause 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:**. Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

**Extinguishing media which shall not be used for safety reason:** Unknown.

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

Product is non-flammable.

#### 5.3. Advice for firefighters

Firefighters should wear self-contained breathing apparatus and full protective clothing. In case of fire warn the people nearby. 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, chemical resistant gloves thickness of 0.11 mm, safety glasses

**For emergency responders:** self-contained breathing apparatus, protective clothes, chemical resistant gloves thickness of 0.11 mm., safety glasses

Avoid skin and eyes contact. Provide proper ventilation.

#### **6.2. Environmental precautions**

No data available

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

In case of unexpected release substance into environment inform on emergency, keep away from source of ignition. 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 5<sup>0</sup>C - 35<sup>0</sup>C. 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**

#### **8.1. Control parameters**

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

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

##### **Non-ionic surfactants (data for high concentrations substance):**

DNEL, PNEC: not identified

##### **Ethanol (data for high concentrations substance):**

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 343 mg/kg, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 950 mg/m<sup>3</sup>, Group: Workers

DNEL Exposure frequency: Long term, Exposure route: dermal, Value: 206 mg/kg bw/day, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 114 mg/m<sup>3</sup>, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: oral, Value: 87 mg/kg/bw/day, Group: consumers

PNEC Aqua (fresh water): 0,96 mg/l

PNEC Aqua (marine water): 0,79 mg/l

PNEC Sediment (freshwater): 3,6 mg/kg

PNEC Soil: 0,63 mg/kg

##### **Propan-2-ol /Isopropanol (data for high concentrations substance):**

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

DNEL Exposure frequency: Long term, Exposure route: inhalation, Value: 500 mg/m<sup>3</sup>, 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/m<sup>3</sup>, Group: consumers

DNEL Exposure frequency: Long term, Exposure route: oral, Value: 29 mg/kg/bw/day, Group: consumers

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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

**Potassium soap (data for high concentrations substance):**

No data available

**Potassium hydroxide (data for high concentrations substance):**

No data available

**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:**

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

**HAND PROTECTION:** Alkali-resistant gloves for example: DERMATRIL 740 with thickness of 0.11 mm

**EYE/FACE PROTECTION:** Safety glasses.

**SKIN PROTECTION:** Protective clothing.

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

APPEARANCE/FORM: milky liquid

ODOUR: characteristic for this fragrance composition

ODOUR THRESHOLD: not identified

pH – 13±1

MELTING/FREEZING POINT: not identified

INITIAL BOILING POINT AND BOILING RANGE: not identified

FLASH POINT: 78<sup>0</sup>C (\*)

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: 1,039÷0,020 g/cm<sup>3</sup>

SOLUBILITY:

a) WATER – soluble

b) ORGANIC SOLVENT – not identified

PARTITION COEFFICIENT N-OCTANOL/WATER: – not identified

AUTO-IGNITION TEMPERATURE: not identified

DECOMPOSITION TEMPERATURE: not identified

VISCOSITY not identified

EXPLOSIVE PROPERTIES: not identified

OXIDISING PROPERTIES: not identified

**9.2. Other information**

REFRACTIVE INDEX – 15,1% 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)

(\*) - based on similar product

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

No data available.

**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 acids and strong oxidizers.

**10.6 Hazardous decomposition products**

No data available.

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

- **INHALATION** : Long-term exposures or work in un-well ventilated area may cause upper respiratory tract irritation.
- **DIGESTIVE SYSTEM**: If swallowed, may cause irritation of the mucous membrane.
- **SKIN CONTACT**: Contact with skin may cause skin irritation.
- **EYE CONTACT**: Causes serious eye damage.

ATEmix= 10927 (Acute toxicity, oral)

**DETAILS OF PARTICULAR COMPONENTS (according to substances's MSDS)****Non-ionic surfactants (data for high concentrations substance):**

Harmful if swallowed.

May cause serious, sometimes irreversible, eye damage.

Details for Alcohol ethoxylates c8-c18 (>5-20EO):

LD50>300 - 2000 mg/kg (rat, oral)

LD50> 2000 mg/kg (rat, skin)

**Ethanol (data for high concentrations substance):**

LD50: 6200 mg/kg

LC50: 95,6 mg/l/4h

**Propan-2-ol /Isopropanol (data for high concentrations substance):**

LD>50 2000 mg/kg (Acute toxicity, oral)

LD50> 2000 mg/kg (Acute toxicity, dermal)

LC50>5 mg/l

Local effects:

-skin- non-irritant

-eyes- irritant

Not sensitising.

High vapor concentration may cause neurotic effects.

Germ cell mutagenicity: Ames test negative

Carcinogenicity: not carcinogenic effects

Reproductive toxicity: No adverse effects were observed

Specific target organ toxicity (single exposure): no data available

Specific target organ toxicity (repeated exposure): no data available

Aspiration hazard: no data available

**Potassium soap(data for high concentrations substance):**

LD50> 10000 mg/kg (rat, oral)

Irritating to eyes and skin.

**Potassium hydroxide (data for high concentrations substance):**

LD50 - 273 mg/kg (rat, oral)

Skin corrosion/irritation: causes burns (rabbit)

Serious eye damage/eye irritation: causes burns (rabbit)

Respiratory or skin sensitisation: No sensitizing effects known (Guinea pig)

Germ cell mutagenicity: (test on Escherichia coli): negative

Aspiration hazard: no risk

Other Toxic Effects on Humans:

Strongly affects the eyes, the mucous membranes of the upper respiratory tract (cough, shortness of breath) and skin. This product causes necrosis tissues: skin, eye and gastrointestinal tract. Repeated or prolonged exposure may cause dermatitis, atrophic changes of the upper respiratory tract (nasal septum injury).

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity****DETAILS OF PARTICULAR COMPONENTS:****Non-ionic surfactants (data for high concentrations substance):**

Substance is readily biodegradable.

Degree of elimination:> 70% after 28 days, according to OECD 301A

Degree of elimination:> 60% after 28 days, according to the OECD 301B

**Ethanol (data for high concentrations substance):**

- for Fish: LC50 = 8140 mg/l/48h.

- for Daphnia: EC50 9268 – 14221 mg/l/48h.

- for algae: EC50 5000 mg/l/7d.

**Propan-2-ol /Isopropanol (data for high concentrations substance):**

- for fish: LC50 > 100 mg/l/48h.

- for Daphnia: EC50 > 100 mg/l/48h.

- for algae: EC50 > 100 mg/l/72h.

**Potassium soap(data for high concentrations substance):**

EC50> 10 mg/l/72h (algae)

Readily biodegradable (based on similar materials)

**Potassium hydroxide (data for high concentrations substance):**

Toxicity to fish: LC50 - 80 mg / l / 96h (Gambusia affinis) - solid product

**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.

**Non-ionic surfactants (data for high concentrations substance):**

No data available

**Ethanol (data for high concentrations substance):**

Substance is readily biodegradable.

**Propan-2-ol /Isopropanol (data for high concentrations substance):**

Biodegradability: >70% after 10 days

**Potassium soap(data for high concentrations substance):**

Readily biodegradable 60% 28 days

**Potassium hydroxide (data for high concentrations substance):**

Biodegradability: not applicable to inorganic products

**12.3 Bioaccumulative potential:****Non-ionic surfactants (data for high concentrations substance):**

No data available

**Ethanol (data for high concentrations substance):**

logPow 0,05

**Propan-2-ol /Isopropanol (data for high concentrations substance):**

logPow 0,05

**Potassium soap(data for high concentrations substance):**

No data available

**Potassium hydroxide (data for high concentrations substance):**

No data available

**12.4 Mobility in soil**

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**

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Contaminated containers should be completely emptied. Several times rise 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:** LEDER CLEAN

**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 not 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 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:**

**Non-ionic surfactants** No data available

**Ethanol :** A Chemical Safety Assessment has been carried out.

**Propan-2-ol /Isopropanol:** A Chemical Safety Assessment has been carried out.

**Potassium soap:** Product contains substances for which Chemical Safety Assessments are still required.

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

### SECTION 16. OTHER INFORMATION

**LEDER CLEAN**

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 phrases and H symbols from Section 2 and 3:

Eye Dam. 1- Serious eye damage, category 1

Acute Tox. 4- Acute toxicity, category 4

Flam liq. 2- Flammable liquid, category 2

Eye Irrit. 2 - Causes eye irritation, category 2

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

Skin Irrit. 2 - Causes skin irritation, category 2

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

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

H225 - Highly flammable liquid and vapor.

H290 – May be corrosive to metals.

H302 – Harmful if swallowed.

H314 – Causes severe skin burns and eye damage.

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H319 – Causes serious eye irritation.

H336 – 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 producer recommendations).

**LEDER CLEAN** was submitted to Inspector for Chemical Substances.

**Changes compared to the previous version:**

- section 6,8 - thickness of gloves. Updated cards versions are now available on [www.tenzi.pl](http://www.tenzi.pl)

This Material Safety Data Sheet contains 8 pages. Changes in the content by unauthorized persons is prohibited.

Skarbimierzyce 02.10.2015