

Safety Data Sheet

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

1.1 Product identifier:

PŁYTY INDUKCYJNE

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

Ready to use product designed for cleaning induction hobs.

1.3 Details of the supplier of the safety data sheet:

TENZI Sp. z o.o. Skarbimierzyce 20 72-002 Dołuje tel. +48 91 3119777 fax. +48 91 3119779

E-mail address for a competent person responsible for SDS: technolog@tenzi.pl

1.4 Emergency telephone number:

+48 91 31 19 777 (mon. - fri. 8am - 4pm) or 112.

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008:

Skin Corr. 1A H314 – Causes severe skin burns and eye damage.

Eye Dam. 1 H318 — Causes serious eye damage.

2.2. Label elements:

(According to 1272/2008/EC*)

Hazard symbols:



Signal words:

DANGER

Hazard statements:

H314 – Causes severe skin burns and eye damage.

Precautionary statements:

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

P301+P330+P331 – IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 – IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

shower].

P310 – Immediately call a POISON CENTER/doctor

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P405 – Store locked up.

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2.3. Other hazards:

Substance does not meet criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances:

Not applicable.

3.2. Mixtures:

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

- < 5% potassium hydroxide- < 5% non-ionic surfactants- < 5% amphoteric surfactants

- < 5% soap

- auxiliary substances not classified as dangerous

Identification		Hazardous ingredient/classification	Concentration	
CAS: WE:	1310-58-3 215-181-3	Potassium hydroxide	< 5%	
Index: Registration:	019-002-00-8 01-2119487136-33-XXXX	Acute Tox.4 H302, Skin Corr. 1A H314, Met. Corr. 1 H290		
CAS: WE:	68515-73-1 Polymer	Non-ionic surfactants	< 5%	
Index: Registration:	Not applicable Introductory	Eye Dam. 1 H318		
CAS: WE: Index: Registration:	Not available 931-513-6 Not applicable 01-2119513359-38-XXXX	Amphoteric surfactants		
		Eye Dam. 1 H318, Aquatic Chronic 3 H412	< 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. Physical effort may cause pulmonary edema. 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. 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.

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Ingestion:

Wash your mouth with running water. Drink about 1-2 liters of fresh water. Do not induce vomiting. Get medical attention and show them this SDS or label. Don't give anything to unconscious person.

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

Inhalation:

Severe irritant. May cause serious damage to upper respiratory tract and it may even lead to chemical pneumonia and pulmonary edema. Symptoms include coughing, sore throat and difficulty with breathing.

Skin:

Corrosive. Causes serious skin burns.

Eyes:

Corrosive. Causes serious eye damage.

Ingestion

Corrosive. Causes burning in mouth, esophagus, throat and stomach.

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

Get medical attention.

Fresh water and eye-wash preparations must be available on the worksite.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media:

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

Unsuitable extinguishing media:

Don't use water jet on liquid's surface.

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 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:

For non-emergency personnel:

Protective chemical-proof gloves (0.11 mm thick), self-contained breathing apparatus, safety glasses.

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For emergency responders:

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

6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground. In case of environmental pollution, contact local authorities.

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 - 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):

Potassium hydroxide (data for highly concentrated substance):

NDS: 0.5 mg/m³
NDSCh: 1 mg/m³
NDSP: not identified.

Non-ionic surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified

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Amphoteric surfactants (data for highly concentrated substance):

NDS, NDSCh, NDSP: not identified

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

Potassium hydroxide (data for highly concentrated substance):

DNEL, PNEC: not identified.

Non-ionic surfactants (data for highly concentrated substance):

DNEL, PNEC: not identified.

Amphoteric surfactants (data for highly concentrated substance):

DNEL

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

PNEC:

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

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 gloves resistant to alkaline chemical substances.

0.11 mm thick.

EYE/FACE PROTECTION:

Safety glasses. In case of contact with skin, use face shield

SKIN PROTECTION:

Protective clothes.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance: Brown coloured liquid

Odour: Characteristic
Odour threshold: No data available

pH: 14 ± 1

Melting point: No data available Freezing point: Initial boiling point: No data available No data available **Boiling range:** No data available Flash point: No data available **Evaporation rate:** No data available Flammability (solid, gas): No data available Upper flammability limit: No data available Lower flammability limit: No data available **Upper explosive limit:** No data available Lower explosive limit: No data available Vapour pressure: No data available Vapour density: No data available $1.045 \pm 0.020 \text{ g/cm}^3$ Relative density:

Solubility:

A) Water: soluble

B) Organic solvent: No data available

Partition coefficient N-Octan:
No data available

9.2. Other information:

Refractive index: 15% Brix ± 5%

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:

May violently react with acids and water (releases warmth).

10.4 Conditions to avoid:

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

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^{* -} Degrees Brix is the content of an aqueous solution. One degree Brix is 1 gram of sucrose in 100 grams of solution and represents the strength of the solution as percentage by weight (%w/w).



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10.5 Incompatible materials:

Acids, strong oxidizers.

10.6 Hazardous decomposition products:

No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

ACUTE TOXICITY:

Inhalation:

Severe irritant. May cause serious damage to upper respiratory tract.

Skin:

Corrosive. Causes serious skin burns.

Eyes:

Corrosive, causes severe eye burns, chemical conjunctivitis and corneal damage (redness, intense pain).

Ingestion:

Corrosive. Causes burning in mouth, esophagus, throat and stomach.

ATEmix = 5460 (acute toxicity, orally)

DETAILS OF PARTICULAR COMPONENTS (according to substances SDS):

Potassium dioxide (data for highly concentrated substance):

LD50: 273 mg/kg (rat, orally)

Corrosive to skin above 10% concentration. Irritant to eyes in 0.5-2% concentration.

Corrosive to eyes above 2% concentration.

Corrosive to respiratory system.

No allergic effects.

Causes burns and damage to digestive system.

No carcinogenic effects. No mutagenic effects.

Non-ionic surfactants (data for highly concentrated substance):

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

Serious eye damage detected.

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Amphoteric surfactants (data for highly concentrated substance):

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

Irritates skin.

Causes serious eye damage.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

Potassium dioxide (data for highly concentrated substance):

LC50:80 ppm(Gambusia affinis)LC50:660 ppm(Daphnia magna)EC50:1337 ppm(Nitscherai Linearis)

Non-ionic surfactants (data for highly concentrated substance):

LC50: 126 mg/l/96h (fish)

EC50: > 100 mg/l/48h (daphnia) (OECD 202)

EC50: > 560 mg/l/6h (bacteria)

Amphoteric surfactants (data for highly concentrated substance):

EC50: 1.9 mg/l/96h (daphnia) (OECD 202)

ErC50: 2.4 mg/l/72h (algae)

ErC50: 7 mg/l/72h (daphnia) (ISO) **LC50**: 1.11 mg/l/96h (fish) (OECD 203)

EC50: 3000 mg/l/16h (bacteria) (ISO)

NOEC: 0.3 mg/l/21days (daphnia (OECD 211)

NOEC: 0.135 mg/l/100days (fish) (OECD 210)

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

12.2. Persistence and degradability:

The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents.

Data for the mixture ingredients:

Substance	Method	Length	Degraded percentage
Potassium hydroxide	No data available	No data available	No data available
Non-ionic surfactants	No data available	28 days	> 99.4%
Amphoteric surfactants	OECD 306	28 days	76%
Amphoteric surfactants	ISO	60 days	80-90%

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Amphoteric surfactants	EU 92/69/EWG	28 days	95%
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12.3. Bioaccumulative potential:

Potassium hydroxide (data for highly concentrated substance):

Not bioaccumulative.

Non-ionic surfactants (data for highly concentrated substance):

Not bioaccumulative.

Amphoteric surfactants (data for highly concentrated substance):

Low bioaccumulative potential.

12.4. Mobility in soil

The product is water soluble and may sink into groundwater systems.

12.5. Results of PBT and vPvB assessment:

This substance/mixture does not meet the PBT and vPvB criteria of REACH, annex XIII..

12.6. Other adverse effects:

No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

RESIDUES AND WASTES:

DO NOT mix with other liquid wastes.

DO NOT empty into sewage system. Product should be totally used up according to its description.

If it's impossible to do so, dispose of this material and its container at hazardous or special waste collection point.

13.1. Waste treatment methods:

Contaminated containers should be completely emptied. Several times rinse the container promptly after emptying. Empty container can be stored in containers for collection of plastic packaging, or can be delivered to specialized company for recycling.

Disposal should be in accordance with the national/international regulations.

SECTION 14. TRANSPORT INFORMATION

TRADE NAME: PŁYTY INDUKCYJNE

14.1. UN Number: 1719.

14.2. UN proper shipping name: Caustic alkali liquid, N.O.S. (potassium hydroxide).

14.3. Transport hazard class(es): ADR class. 8.

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.

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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).
- 8) REGULÁTION (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.

Potassium hydroxide:
Non-ionic surfactants:
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.

Classification of chemical mixture was done with calculation methods, based on the content of hazardous ingredients.

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

Aquatic Chronic 3 — Hazardous to the aquatic environment - Chronic Hazard, category 2.

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

Eye Dam. 1 — Serious eye damage, category 1.
Skin Corr. 1A — Corrosive to skin, category 1A
Acute Tox. 4 — Acute toxicity, category 4.

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.

H400 – Very toxic to aquatic life.

H412 – Harmful 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)

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