

Safety Data Sheet

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

1.1 Product identifier:

UDRAŻNIACZ RUR

1.2 Relevant identified uses of the substance or mixture and uses advised against: Ready to use product for cleaning pipes.

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.

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2.1. (Classification of th	e substance or mixture:		
	<i>Classification acco</i> Skin Corr. 1A H314 Eye Dam. 1 H318			
	Label elements: (According to 1272	/2008/EC*)		
	Hazard symbols:			
	Signal words : DANGER			
ł	Hazard statements H314 H410	: – Causes severe skin burns and eye damage. – Very toxic to aquatic life with long lasting effects.		
	P303+P361+P353 P310	 ements: Wear protective gloves/protective clothing/eye protection/face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Immediately call a POISON CENTER/doctor IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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):

- < 10% sodium hydroxide

- < 5% cationic surfactants
- < 5% anionic surfactants
- aroma composition (Limonene)
- auxiliary substances not classified as dangerous

Identification		Hazardous ingredient/classification	Concentration
CAS: WE:	1310-73-2 215-185-5	Sodium hydroxide (100%)	
Index: Registration:	011-002-00-6 01-2119457892-27-XXXX	Skin Corr. 1A H314, Met. Corr. 1 H290	< 10%
CAS: WE:	3332-27-2 222-059-3	Cationic surfactants	.4.5%
Index: Registration:		Skin Irrit. 2 H315, Eye Dam. 1 H318, Aquatic Acute 1 H400	< 1.5%

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. Lay him down in semi-recumbent posture and 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 irritation 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. Give lots of water to drink. DO NOT give any neutralizing agents. Immediately get medical attention and show this SDS or label.



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

Inhalation:

Strongly irritant. May cause serious irritation of the upper respiratory tract, burns, chemical pneumonia and pulmonary edema. Symptoms include cough, dyspnea and sore throat.

Skin:

Corrosive. Causes serious skin burns.

Eyes:

Corrosive. Causes severe eye burns, chemical conjunctivitis and corneal damage.

Ingestion:

Corrosive. Causes serious burns in mouth, 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:

Water, foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media:

Do not 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.

For emergency responders:

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



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6.2. Environmental precautions:

Avoid discharge into drains, watercourses or onto the ground at all costs.

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):

Sodium hydroxide (data for highly concentrated substance):NDS:0.5 mg/m³NDSCh:1 mg/m³NDSP:not identified.

Cationic surfactants (data for highly concentrated substance): NDS, NDSCh, NDSP: not identified.



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

Sodium hydroxide (data for highly concentrated substance): DNEL, PNEC: not identified.

Cationic surfactants (data for highly concentrated substance): DNEL, PNEC: not identified.

DNEL, PNEC: not identified.

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:

Use in well ventilated areas.

HAND PROTECTION:

Protective gloves resistant to alkaline chemical substances. 0.11 mm thick.

EYE/FACE PROTECTION:

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

SKIN PROTECTION:

Protective clothes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Appearance: Odour: Odour threshold: pH: Melting point: Freezing point: Initial boiling point: Boiling range: Flash point: Evaporation rate: Flammability (solid, gas): Upper flammability limit: Lower flammability limit: Upper explosive limit: Lower explosive limit: Vapour pressure:	Yellow gel Characteristic for aroma composition used in production No data available 14 ± 1 No data available No data available
Vapour pressure: Vapour density:	No data available No data available
Relative density:	$1.120 \pm 0.020 \text{ g/cm}^3$
Solubility: A) Water: B) Organic solvent:	soluble No data available



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Partition coefficient N-Octan:No data availablePartition coefficient Water:No data availableAuto-ignition temperature:No data availableDecomposition temperature:No data availableViscosity:No data availableExplosive properties:No data availableOxidising properties:No data available

9.2. Other information: Refractive index: 20.8% 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:

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 light metals.

10.4 Conditions to avoid:

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

- **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:

Corrosive, may cause serious damage to upper respiratory tract, burns, chemical pneumonia and pulmonary edema. Symptoms include coughing, sore throat and difficulty with breathing.

Skin contact:

Corrosive, causes serious skin burns.

Eye contact:

Corrosive. Causes severe eye burns, chemical conjunctivitis and corneal damage.

Digestive system:

Corrosive, causes serious burns in mouth, throat and stomach.



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

Sodium hydroxide (data for highly concentrated substance):

LD50: 500 mg/kg (rat, orally)

Very harmful after swallowing. Causes burns in mouth, throat and stomach. Risk of gastrointestinal perforation. Corrosive effects on skin. Burns, deep wounds and skin necrosis. Serious and irreversible eye damage. Risk of blindness. No allergic effects. No mutagenic effects. No carcinogenic effects. Corrosive effects on respiratory system. Causes irritation of the mucous membrane.

Cationic surfactant (data for highly concentrated substance):

Inhaling aerosols may cause irritation of the mucous membranes. Thermal decomposition may create harmful gas and vapours. May cause irritation and burns on skin. May cause irreversible damage to eyes. Swallowing may cause irritation of the mucous membranes.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity:

Data for the mixture ingredients:

Sodium hydroxide (data for highly concentrated substance): Toxic for animals, aquatic organisms and bacteria. May adversely affect plant growth.

LC0:	157 mg/l/48h	(fish)
LC50:	189 mg/l/48h	(fish)
LC100:	213 mg/l/48h	(fish)

Cationic surfactant (data for highly concentrated substance):

LC50:	10.3 mg/l/96h	(fish, Brachydanio rerio)	(OECD 203)
EC50:	11.1 mg/l/48h	(daphnia, Daphnia magna)	(OECD 202)
ErC50:	0.19 mg/l/72h	(algae, Pseudokirchneriella subcapitata)	(OECD 201)

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:

Sodium hydroxide (data for high concentrations substance):

Easily biodegradable in water and air.

Substance rapidly dissolves and subsequently dissociates in water. Sodium hydroxide is converted into carbonates.



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Cationic surfactant (data for highly concentrated substance): OECD 301 D, closed bottle test, degradability > 60% M factor acute: 1

12.3. Bioaccumulative potential:

No data available.

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

Caustic alkali liquid, N.O.S. (sodium hydroxide)

TRADE NAME: UDRAŻNIACZ RUR

- 14.1. UN Number:
- 14.2. UN proper shipping name:
- 14.3. Transport hazard class(es):
- 14.4. Packing group:
- 14.5. Environmental hazards:
- No. 14.6. Special precautions for user:
 - For more details see Sections 6 and 8.

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14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: No data available.

ADR class. 8.

WARNING LABELS





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SECTION 15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:

 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).
 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:

Sodium hydroxide:A Chemical Safety Assessment has been carried out.Cationic surfactant:A Chemical Safety Assessment doesn't need to be 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.

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

Aquatic Acute 1 Eye Dam. 1 Met.Corr 1 Skin Irrit. 2 Skin Corr. 1A	 Hazardous to the aquatic environment - Acute Hazard, category 1 Serious eye damage, category 1. Substance/Mixture is corrosive to metals, category 1 Causes skin irritation, category 2. Corrosive to skin, category 1A
H290	– May be corrosive to metals



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H314	- Causes severe skin burns and eye damage.
H315	- Causes skin irritation.
H318	 Causes serious eye damage.
H400	 Very toxic to aquatic life.

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.

UDRAŻNIACZ RUR was submitted to Inspector for Chemical Substances.

Expiry date:

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

Changes compared to the previous version:

- section 8.

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

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