SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier: **DRAIN CLEANER**

Other means of identification: **Drain Cleaner „ARLI CLEAN“;**
UFI: FM00-70NQ-600R-4JQQ

1.2. Relevant identified uses of the substance or mixture and uses advised against: A rapid and effective sewer pipe cleaner. It unblocks the sewers accumulation of grease, soap stains, hair and other residues of contaminants as eliminates bad smell. It can be safety used for plastic or metal pipes.

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

Manufacturer: **UAB "Arli Baltic"**
Address: Šaltinių g. 26-30, LT-03233 Vilnius, LITHUANIA
Telephone: +370 655 34559
E-mail: info@arlibaltic.lt www.arlibaltic.lt
E-mail address of the competent person responsible for the Safety Data Sheet: info@arlibaltic.lt

1.4. Emergency telephone number:

Lithuanian Poisons Information Bureau (24/7): Tel: +370 5 236 20 52; www.apsinuodijau.lt

European Emergency: 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture:

Classification of the mixture according to CLP Regulation (EC) No 1272/2008		
Hazard Classes and Categories		***Hazard statement and Supplemental hazard statement Code(s)***
Skin Corr. 1A	Skin corrosion / irritation, subcategory 1A	H314
Met. Corr. 1	Substance or mixture corrosive to metals	H290

Note: Full texts of hazard statements (H), supplemental hazard statements (EUH) indicated in Subsection 2.2.

2.2. Label elements
Labeling according to the CLP Regulation No. 1272/2008/EC:

Information about hazardous ingredients: Contains sodium hydroxide.

Signal word: Dgr. DANGER

Hazard pictograms (GHS Pictograms):

GHS05

Hazard statements:

H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.

Supplemental hazard statement: none

Precautionary statements*:

P102 Keep out of the reach of children.
P101 If medical advice is needed, have product container or label at hand.
P280 Wear protective gloves.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
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 doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P405	Store locked up.
P501	Empty container flush with water and drop off for recycling.

Information according Regulations 648/2004/EC and 907/2006/EC on detergents: Not applicable. Mixture does not contains surfactants as well as ingredients which necessary to indicate on the label according requirements for detergents.

2.3. Other hazards

Criteria for PBT or vPvB: It does not apply to inorganic substances.
Physical/Chemical Effects: Mixture is not combustible or explosive - aqueous solution.

SECTION 3: Composition/information on ingredients

3.2. Mixture - Hazardous ingredients which necessary to indicate, substances for which there are workplace exposure limits.

EC No	CAS No	REACH registration No	Chemical name	Concen-tration, mass %	Classification according to CLP Regulation (EC) No 1272/2008
215-185-5	1310-73-2	01-2119457892-27 -xxxx	Sodium hydroxide; Caustic soda*	20 ÷ 30	Met. Corr. 1 H290 Skin Corr. 1A H314 Eye Dam. 1 H318

Notes: Full texts of hazard classes, categories, hazard statements (H) and supplemental hazard statements EUH) indicated in Sections 16.

* Substances for which in Regulation 1272/2008/EC or after the REACH registration established specific concentration limits for the classification of the mixtures specified in Section 16.

SECTION 4: First aid measures

General: In case of doubt, or when symptoms persist immediately call a POISON CENTER or doctor/ physician. If person unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

4.1. Description of first aid measures

Inhalation: There is no real risk in normal circumstances or in accidents. Non-volatile aqueous solution. Use of the spray does not foreseen.
Skin Contact: Remove contaminated, saturated clothing immediately. Rinse skin with plenty of water. Apply 2-5% acetic or citric acid compresses. Seek medical advice immediately if blisters appeared or irritation persist.
Eye Contact: Immediately rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing with plenty of water for 10 – 15 minutes holding eyelids apart. Immediately call a doctor.
Ingestion: Rinse mouth and throat. Do NOT induce vomiting. If within a few minutes after ingestion, one small glass of water may be given to drink. Immediately call a POISON CENTER or doctor/ physician.

4.2. Most important symptoms and effects, both acute and delayed: Very strong alkaline solution. Causes skin burns. If in eyes: causes serious eye damage. If swallowed causes lip sores, mouth, throat and digestive tract burns. For more information - see Section 11.

4.3. Indication of any immediate medical attention and special treatment needed: Acute burning effects. Skin and eye treatment can be treated in the same measure as in the treatment of burns. The injured person should be under medical supervision for at least 48 hours, because of the possibility of deeper burn symptoms, especially in cases where there has been no necessary first-aid measures. Perform endoscopy in all cases of suspected sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid - base balance, electrolytes, and fluid intake are also required.

SECTION 5: Firefighting measures

5.1. Extinguishing media: Product is not combustible. In case of fire in the surroundings: use appropriate extinguishing media.

5.2. Special hazards arising from the mixture: Not really from product itself. Reaction with surrounding products may cause formation hazardous substances. React with acids, some metals such as aluminium, tin and zinc. This produces a combustible/explosive gas – hydrogen. Reacts with ammonium salts to produce ammonia, causing fire hazard.

5.3. Advice for firefighters: Heating will cause rise in pressure with risk of bursting. Keep containers cool with water spray.
Special protective equipment for fire-fighters:
According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures: Ventilate area of leak. Avoid contact with skin, clothing and eyes. Evacuate all persons not involved in remedying emergency condition from hazardous area. Wear protective gloves. Remove any products or articles made from aluminium or galvanized metal. Stop or reduce any leaks if such action is safe. Ground floor may be slippery.

6.2. Environmental precautions: Do not allow of the large amounts released to drain systems or onto the soil.

6.3. Methods and material for containment and cleaning up: Collect leaking liquid in an appropriate container ex., from plastic, stainless steel. Remainders absorb with textile, sand, sawdust, and place in a chemical waste container. Wash away remainder with water. For neutralisation useful solution of the acetic acid 5% - 9%.

6.4. Reference to other sections: Suitable protective equipment referred in Section 8, requirements to disposal considerations referred in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling: Use for purposes and instruction that note on the label or in the technical data sheet. Avoid contact with skin, clothing and eyes. Do not mix with other chemicals. Wear protective gloves. Do not to eat, drink and smoke in work areas. Wash hands after use.

7.2. Conditions for safe storage, including any incompatibilities: Store at temperature more than 0^{o}C. Keep away from heat sources. Keep the packages tightly closed. Protect packages against physical damage. Incompatible materials: acids. Store only in original containers. Don't use containers from aluminium, galvanized steel.

7.3. Specific end use(s): Referred to in subsection 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters: *Exposure limit values* **-** Sodium hydroxide - TLV: 2 mg/m³ (ceiling values)
TLV – Threshold Limit Value.

8.2.1. Appropriate engineering controls: Protect from leaking.

8.2.2. Individual protection measures, such as personal protective equipment

(a) Eye / face protection: If it is necessary – safety glasses, safety goggles, face shield.
(b) Skin protection: To wear chloroprene or nitril rubber or PVC or other impervious to liquids alkali-resistant protective gloves, according EN 374-1. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to chemicals should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.
(c) Respiratory protection: Not needed in normal circumstances. Protection against aerosols or in serious accidents, wear a respirator that protects against dust and liquid aerosols FFP2SL according EN 149.
(d) Thermal hazards*:* Not applicable in normal circumstances. Are available by reaction with strong acids - sulfuric acid, nitric, hydrochloric.
(e) Personal hygiene measures: do not eat, drink or smoke. After work, wash your hands with soap and water.

8.2.3. Environmental exposure controls: Protect from leaking. Do not empty large quantities of the product into drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid.
Colour:	Clear, colourless to pale yellow.
Odour:	Odourless
pH:	Very strong alkaline solution. pH = 13,5 - 14 (10 % solution)
Melting point/freezing point:	< -10°C
Initial boiling point and boiling range:	>110 °C
Flash point:	Not applicable.
Evaporation rate (n- butylacetate =1):	Not applicable - water solution
Flammability:	Not applicable.
Upper/lower flammability or explosive limits:	Not applicable.
Vapour pressure:	Not applicable - water solution
Vapour density (air = 1):	Not applicable - water solution
Relative density:	~ 1,24 -1,25
Solubility(ies):	Miscible in water in any proportions.
Partition coefficient: n-octanol/water:	It does not apply to inorganic substances.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	≥100 °C - intensive evaporation of water
Viscosity:	No data - irrelevant
Explosive properties:	Not applicable.
Oxidising properties:	The ingredients are not oxidisers
Particle characteristic:	No data.

9.3. Other information: none.

SECTION 10: Stability and reactivity

10.1. Reactivity: Reacts with acids. May be corrosive to metals.

10.2. Chemical stability: Stable under normal storage and circumstances conditions.

10.3. Possibility of hazardous reactions: Product reacts violently with acid and is corrosive to metals such as aluminium, tin, lead and zinc. This produces a combustible/explosive gas – hydrogen. Reacts with ammonium salts. This produces ammonia. This generates fire hazard.

10.4. Conditions to avoid: High temperatures (> 50^{o}C), direct sunlight, freezing (< -10°C).

10.5. Incompatible materials: Acids, acidic products, light metals, ammonium salts.

10.6. Hazardous decomposition products: Unknown, may occur only in response to other products.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity: according available data, the mixture does not meet the classification criteria.
b) Skin corrosion (or) irritation: The product causes serious skin burns.
c) Serious damage to the eyes and (or) eyes irritation: The product causes serious eye damage. Risk of blindness.
d) Respiratory or skin sensitization: according available data, the mixture does not meet the classification criteria.
e) Mutagenicity: according available data, the mixture does not meet the classification criteria.
f) Carcinogenicity: according available data, the mixture does not meet the classification criteria.
g) Reproductive toxicity: according available data, the mixture does not meet the classification criteria.
h) Specific target organ toxicity (single exposure): according available data, the mixture does not meet the classification criteria.
i) Specific target organ toxicity (repeated exposure): according available data, the mixture does not meet the classification criteria.
j) Aspiration hazard: according available data, the mixture does not meet the classification criteria.

Information on likely routes of exposure, symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: Low-volatile product. Inhalation of aerosols – cough, sore throat, burning sensation, shortness of breath.
Skin Contact: Redness, pain, skin burns, blisters.
Eye Contact: Redness, pain, blurred vision, severe burns. Risk of blindness.

Ingestion: Possible abdominal pain, diarrhea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure: Long-term effects - breathing aerosols may cause lung oedema. Prolonged or repeated skin contact may cause dermatitis. The effects may be delayed. Medical observation is indicated.

11.2. Information on other hazards: None.

SECTION 12: Ecological information

12.1. Toxicity: Based on available data, the classification criteria are not met.

Harmful effect on aquatic or soil organisms ant plants may be due to pH shift. Information about ecotoxicity is discrepant, pH ≥ 9,2 – starting death of some fish, pH ≥ 11,0 is fatal for all fish, pH ≥ 10,2 is fatal for daphnia.

12.2. Persistence and degradability: Sodium hydroxide soluble in water, decompose into ions, diffuses and neutralized.

12.3. Bioaccumulative potential: Not applicable for the ingredients.

12.4. Mobility in soil: No exact information available.

12.5. Results of PBT and vPvB assessment: Not applicable.

12.6. Endocrine disrupting properties: No data.

12.7. Other adverse effects: Large quantities may be harmful for soil and water organisms and plants in spill place.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal: Draining big amounts of the product into the sewers not permitted. Product waste is hazardous waste. It should be treated according to national regulations and local authorities' advice. When handling the waste note the hazards and take care of necessary safety measures, labelling and information. Consult federal, state and local disposal regulations to determine disposal classification and acceptable methods of disposal.
Contaminated packaging: Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: Transport information

14.1.	**UN number or ID number:**	3266
14.2.	**UN proper shipping name:**	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium hydroxide solution)
14.3.	**Transport hazard class(es):**	80
	Hazard label(s):	8
	Classification code :	C5
	Limited quantities (LQ)	5 L;
	Excepted quantities (EQ)	E1
14.4.	**Packing group:**	III
14.5.	**Environmental hazards:**	Not applicable.

Note: For the product, packaged in ≤ 5 litres containers requirements of ADR not applicable.

14.6. Special precautions for user: May be corrosive to metals. Hand protective equipment referred in Section 8 must be. The package must be sealed, placed in a way that would avoid the risk of mechanical damage.

14.7. Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

General designations (laws):
- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council - Regulation (EEC) No 793/93 and Commission

Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- 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.
- COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Commission Regulation (EU) No 286/2011 of 10 March 2011 amending, for the purposes of its adaptation to technical and scientific progress, Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures
- Commission Regulation (EC) No 574/2004 of 23 February 2004 amending Annexes I and III to Regulation (EC) No 2150/2002 of the European Parliament and of the Council on waste statistics.
- Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives
- Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC
- European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).
- HN 23:2011 "Occupational Exposure Limit Values. Measuring the impact and General Requirements (Approved by the Minister of Health and Social Security and Labor of the 1st of September, 2011, Order No. V-824/A1-389, and the change approved by the Minister of Health and Social Security of the Republic of Lithuania and the Minister of Labor in June 12, 2018, order no. V-695 / A1-272.
- Packaging and packaging waste regulations, new redaction (Approved by the Minister of Environment of the Republic of Lithuania on the 31th of March, 2016, order No. D1-225.
- Waste management rules. (New redaction, Approved by the Minister of Environment of the Republic of Lithuania on the 3rd of May, 2011, order No. D1-368, and amendments approved by the Minister of the Environment in 2015 June 23 by order No. D1-489 and December 29, 2017, by order No. D1-1061.

15.2. Chemical safety assessment: There is no for the mixture, are for ingredients.

SECTION 16: Other information

Substances for which in Regulation 1272/2008/EC or after the REACH registration established specific concentration limits for the classification of the mixtures:

EC No	CAS No	REACH registration No	Chemical name	Specific concentration limits
215-185-5	1310-73-2	01-2119457892-27-xxxx	Sodium hydroxide; Caustic soda	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %

Full texts of hazard classes, categories, hazard statements, supplemental hazard statements and other abbreviations and acronyms indicated under sections 3:

Hazard Classes and Categories		*Hazard statements and Supplemental hazard statements*	
Skin Corr. 1A Skin Corr. 1B	Skin corrosion/ irritation, subcategory 1A Skin corrosion/ irritation, subcategory 1B	H314	Causes severe skin burns and eye damage.
Eye Dam. 1	Serious eye damage/eye irritation, category 1	H318	Causes serious eye damage.
Met. Corr. 1	Substance or mixture corrosive to metals	H290	May be corrosive to metals.

Additional sources of the safety data sheet:
Safety Data Sheets issued by manufacturers or suppliers of components.
Data available on the websites of the European Chemicals Agency (ECHA), other international and national organizations.

This information is furnished without warranty of any kind, expressed or implied. It is intended solely to assist in evaluating the suitability and proper use of the product and in implementing safety precautions and procedures.
Information contained herein may be combined with other information obtained by the User to determine the applicability of federal, state, and local laws and regulations.
Users of the product should consider this information as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials.

End of safety data sheet