

**SAFETY DATA SHEET**

According to REACH Regulation 1907/2006/EC
And the Change 2020/878/EC

UNIVERSAL SANITARY ACID CLEANER
“Lemon fresh”

Revision date: 2010 09 01
Review date: 2024 09 20

Version: 4

SECTION 1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of the Chemical mixture: Universal Sanitary Acid Cleaner „Lemon fresh“
Other names: Universal Sanitary Acid Cleaner (lemon smell)
Trade names: „ARLI CLEAN“; „ARLI CLEAN Professional“;
NORFA Concentrated Sanitary Acid Cleaner

UFI: 5X00-80E9-E00Q-SX1Y

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

Identified uses: effectively cleans salts, urine stone, rust from porcelain, pans, tiles, ceramic, stainless steel surfaces. Designed for both Professional use (food industry, catering, education and health care facilities, municipal facilities) as well as domestic.

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

JSC „Arli Baltic“

Contact details

Šaltinių g. 26-30, Vilnius, LT - 03233

Tel.: +370 655 34 559

E-mail adress of the competent erson responsible for the MSDS: info@arlibaltic.lt

www.arlibaltic.lt

1.4. Emergency telephone number:

Lithuanian Poison 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 In accordance with the CLP regulation No. 1272/2008/EB	
Hazard Class and Category Code (s)	Hazard phrase code (s)
Eye Dam. 1 Skin Irrit. 2	H318 H315

Note: Full text of H-phrases are indicated in subsection 2.2.

2.2. Label elements

Information on hazardous ingredients: the product contains hydrochloric acid, alcohols, C12-14, ethoxylated.

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

The signal word: Dgr: DANGER

Hazard pictograms:



GHS05

Hazard statements:

H318 Causes serious eye damage.

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H315 Causes skin irritation.

Additional hazard information: None

Precautionary statements:

P102 Keep out of reach of children.
P280 Wear protective gloves.
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.
P332+P313 If skin irritation occurs: Get medical advice/ attention.

Information according to Detergents Regulation 648/2004/EC: The product contains less than 5% non-ionic surfactants, as well as perfumes (*d-Limonene*; *Hexyl cinnam-aldehyd*; *alpha-Pinene*; *Linalool*; *Geraniol*).

2.3. Other hazards

PBT or vPvB criteria: The organic substances in the mixture does not meet the PBT/vPvB criteria.

The hazards associated with fire or explosion: non-flammable, non-explosive. The mixture is an aqueous solution.

SECTION 3. Composition /information on ingredients**3.2. Mixtures**

Substances presenting a health hazard, if those substances are present in concentrations equal to or greater than 1 %; substances with lower classification limits; substances for which Union workplace exposure limits have been assigned; as well as substances specified in the labeling requirements for detergents.

EC No.	CAS No.	REACH Registration No.	Ingredients	Weight percent %	Classification In accordance with the CLP regulation No. 1272/2008/EB
231-595-7	-----	01- 2119484862- 27-xxxx*	Hydrochloric acid....%	1.0 – 2.0	Skin Corr. 1B; H314 STOT SE 3; H335 Met. Corr. 1; H290
231-595-7	7647-01-0	-----	Hydrogen chloride		
polymer	68439-50-9	-----	Alcohols, C12-14, ethoxylated** Laureth 7	1.0 – 2.0	Acute Tox. 4; H302 Eye Dam.1; H318 Aquatic Chronic 3; H412
Fragrance: allergens					
227-813-5	5989-27-5	01- 2119529223- 47-xxxx	(R)- p-mentha-1,8- diene; d-limonene; limonene	0.01 – 0.05	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
202-983-3	101-86-0	-----	α-hexylcinnamaldehyde		Skin Sens. 1; H317
201-291-9	80-56-8	01- 2119519223- 49-xxxx	Pin-2(3)-ene		Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410
201-134-4	78-70-6	01- 2119474016- 42-xxxx	1,6-octadien-3-ol, 3,7- dimethyl-; linalool		Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317
203-377-1	106-24-1	01- 2119552430- 49-xxxx	Geraniol		Skin Irrit. 2; H315 Eye Damage 1; H318 Skin Sens. 1; H317

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Notes: Explanations of H-phrases, hazard classes and other symbols are indicated in section 16.

* Hydrogen chloride is registered as a chemical substance according REACH. For Hydrochloric acid is provided a harmonized classification according Regulation 1272/2008/EC and the classification given by manufacturers (supplemented by Met. Corr. 1; H290). Specific concentration limits for the classification of mixtures are indicated in Section 16.

** The substance is not included in the list of classified substances (Regulation 1272/2008/EC); the substance is not registered according REACH - indicated the classification provided by the manufacturer.

SECTION 4. First aid measures**4.1. Description of first aid measures**

Common information: in all cases of doubt, or when symptoms persist, seek medical attention. In case of unconscious, do not give anything to drink or put anything in the mouth. In case of suspected poisoning of the product, seek medical advice or contact Lithuanian Poison Information Bureau: Tel: +370 5 236 20 52.

Inhalation: The mixture is a low volatile water solution. There is no real danger when used or handled. The use of aerosols is not foreseen. Danger can only occur if the liquid is spilled over a large area. After inhalation of large quantities hydrogen chloride vapor, or during prolonged work in poorly ventilated areas, if nasal and respiratory tract irritation are observed, go out into the fresh air, take a deep breath. Rinse your mouth with water, if possible - rinse your nose, rest. If you experience any symptoms of poisoning, seek medical advice immediately.

Skin contact: Remove contaminated clothing, wash your hands and damaged areas of the body with plenty of water. If irritation persists – seek medical advice.

Eye contact: wash off immediately with plenty of water. If a person wears contact lenses, remove it carefully and continue rinsing for at least 10-15 minutes, raising and lowering the eyelids, get medical attention.

Ingestion: rinse mouth, drink a few glasses of water. Without a doctor's consultation do not induce vomiting - risk of suffocation with foam.

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

The product is an acidic mixture containing active surfactants.

Contact with eyes causes severe irritation with redness, itching, tearing, impaired vision. Even irreversible corneal and conjunctival burns, risk of blindness are possible!

Dries out, degreases the skin. May cause skin irritation, redness, itching.

The mixture is a low volatile water solution. It emits hydrogen chloride vapors, the release of which accelerates upon heating. Hydrogen chloride vapors irritate the nasal mucosa, throat, respiratory tract, may cause a feeling of tightness in the chest. If swallowed, possible sore throat, esophagus, gastrointestinal irritation.

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

See Section 4.2. No specific recommendations. Symptomatic treatment.

SECTION 5. Firefighting measures

5.1. Extinguishing media: must be selected assessing the burning properties of surrounding materials. The product is non-flammable.

5.2 Special hazards arising from the substance or mixture

On heating releases toxic corrosive hydrogen chloride gas. The product reacts with light metals such as aluminum and releases extremely flammable and explosive gases- hydrogen.

5.3. Advice for firefighters:

In a fire or if heated, a pressure increase will occur and the package may burst.

If packages cannot be removed from the flame, cool with water mist.

Special protective equipment for fire-fighters - must be selected according to the properties of the combustible material.

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Small spills do not cause the possibility of serious accidents. If a large amounts of liquid is spilled, such as from packaging for professional users, avoid contact with skin and eyes, ventilate the room. Do not touch or walk through spilled material. Risk of slipping. Non-emergency personnel must leave the spill site. Wear suitable gloves.

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6.2. Environmental precautions

If a large amounts of liquid is spilled - do not allow to enter drainage system, surface or ground water.

6.3. Methods and material for containment and cleaning up

Collect spillage with non-combustible, absorbent material e.g. sand, earth, or other inert material and place into corrosion-resistant plastic or steel container for disposal.

Damaged areas wash with clean water, wipe thoroughly.

6.4. Reference to another section

For personal protective equipment see section 8. For disposal considerations see section 13.

SECTION 7. Handling and storage**7.1. Precautions for safe handling****Advice for safe handling**

Use according to label specification. Work in a well ventilated areas. Avoid contact with eyes and skin. Wear suitable gloves. Do not breath vapor and gas. Do not eat, drink or smoke in the workplace. Wash your hands with soap thouroughly after using.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat sources. Store only in original packages. Keep packages tightly closed. Storage temperature not lower than + 5 °C.

Incompatible materials for storage: none, if packages tightly closed.

7.3. Specific end use

Specified in section 1.2.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

The mixture is a low volatile water solution. The use of aerosols is not foreseen. When used and handled properly, hazardous substances are hardly released into the air. Hazardous substances can only be formed by reacting with other products or in case of large spills without adequate ventilation in the room.

Chemical exposure limit at the workplace:

HN 23:2011 data (2018 version):

Chemical material		Threshold						Comments
		Long-term exposure limit (STEL)		Short-term exposure limit (STEL)		Ceiling Limit Value (CLV)		
Ingredients	CAS No.	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	
Hydrogen chloride	7647-01-0	8	5	15	10	-	-	-

8.2. Exposure controls**8.2.1. Appropriate engineering controls**

Good indoor ventilation, avoid spilling.

8.2.2. Personal protective equipment

Eye, face protection: in case of eye contact - safety glasses.

Skin protection: Chemical-resistant, impervious gloves.

Body protection: work clothes, protective footwear.

Respiratory protection: in case of spilling or inadequate area ventilation, use (semi) masks with filters to protect against inorganic acids gases or vapors (Type E1, EN 14387), or filtering half masks for protection against inorganic vapors and gases FFE1 according to EN 405.

Protection against thermal hazards: not applicable

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8.2.3. Environmental exposure controls

Do not allow to enter drainage system, surface or ground water.

SECTION 9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

a) Physical state:	Colourless or yellowish foaming liquid
b) Odour:	Used perfumes.
c) Odour threshold:	Not applicable.
d) pH:	~ 1 – 1,2
e) Melting point/freezing point °C:	≤ 0°C
f) Initial boiling point/Boiling range, °C :	From 100°C (water)
g) Flash point, °C:	Not applicable.
h) Evaporation rate (n-butylacetate =1):	Not applicable – water solution.
i) Flammability (solid, gas):	Not applicable.
j) Upper/lower flammability or explosive limits:	Not applicable.
k) Vapour pressure:	Not applicable – water solution.
l) Vapour density:	1,3 – hydrogen chloride.
m) Relative density:	~ 1
n) Solubility in water:	miscible with water in any ratio.
o) Partition coefficient (n-octanol/water):	Not applicable for hydrochloric acid- inorganic substance. LogPow of fatty ethoxylated alcohols = 4 – 7.
p) Auto-ignition temperature, °C:	Not applicable.
q) Decomposition temperature:	Not applicable.
r) Viscosity:	No specific data. Almost like water.
s) Explosive properties:	Not applicable.
t) Oxidising properties:	Components have no oxidising properties.
u) Particle characteristic:	No data.

9.2. Other information: none.**SECTION 10. Stability and reactivity****10.1. Reactivity**

Reacts with alkali, light metals.

10.2. Chemical stability

Stable under specified storage conditions.

10.3. Possibility of hazardous reactions

Reacts with alkali, light metals - aluminum, zinc. During these reactions, hydrogen releases - the risk of fire and explosion.

10.4. Conditions to avoid

Heating above 40 °C, direct sunlight, negative (≤0 °C) temperatures.

10.5. Incompatible materials

Incompatible with the following materials: strong oxidizers, alkaline products, alkali metals, substances that react with water.

10.6. Hazardous decomposition products

On heating releases toxic corrosive hydrogen chloride gas.

The product loses water during heating. Carbon monoxide and other organic decomposition products may be released.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Hazard Classes**

a) **Acute toxicity:** based on the calculation method, does not meet the classification criteria.

b) **Skin corrosion (or) irritation:** in accordance with the Regulation (EC) No 1272/2008 specified specific concentration limits for hydrochloric acid, the mixture does not meet the classification criteria. However, due to the low pH of the mixture, the product is classified as irritant. Dries out, degreases the skin.

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c) Serious damage to the eyes and (or) eyes irritation: in accordance with the Regulation (EC) No 1272/2008 specified specific concentration limits for hydrochloric acid, and due to the low pH of the mixture, the product is classified as causes serious eye damage.

d) Respiratory or skin sensitization: contains a small amount (less than 0.05%) fragrances, that may cause an allergic skin reaction. The mixture does not meet the classification criteria.

e) Mutagenicity: according available data, components does not meet the classification criteria.

f) Carcinogenicity: according available data, components does not meet the classification criteria.

g) Reproductive toxicity: according available data, components does not meet the classification criteria.

h) Specific target organ toxicity (single exposure): contains small amounts of hydrochloric acid - hydrogen chloride vapors may irritate the respiratory tract. The mixture does not meet the classification criteria.

i) Specific target organ toxicity (repeated exposure): according available data, components does not meet the classification criteria.

j) Aspiration hazard: Not applicable.

Information on likely routes of exposure, with the physical, chemical and toxicological characteristics related symptoms, delayed and immediate effects and also chronic effects from short and long term exposure: no other important information, see section 4.2.

11.2. Information on other hazards: None.

SECTION 12. Ecological information**12.1. Toxicity**

The mixture contains small quantities of substances classified as dangerous for the environment. The mixture does not meet the classification criteria.

12.2 Persistence and degradability

Components solubles in water, decomposes. Hydrochloric acid neutralizes.

The biodegradability of the surfactants in the mixture complies with the Requirements of Regulation 648/2004/EC.

12.3. Bioaccumulative potential

Not applicable for ingredients.

12.4. Mobility in soil

No data. Only large spills can contaminate groundwater, however, due to the low concentration of the chemicals, there is no significant risk.

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

12.6. Endocrine disrupting properties: No data.

12.7. Other adverse effects: No data.

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Do not discharge of undiluted product's waste into the environment, soil or groundwater.

Wastes are treated in accordance with relevant local requirements.

Waste code: 07 06 01 - "Aqueous washing liquids and mother liquors". Determining the characteristics of the hazard code: H4 (irritant). Diluted solutions may be discharged into drains.

Empty packagings code 15 01 02 – plastic packaging. Washed and dried packages can be reused or recycled.

SECTION 14. Transport information

14.1. UN Number or ID 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: Not applicable.

14.6. Special precautions for user: The packages must be tightly closed. Avoid the risk of mechanical damage and overturning. The vehicle must be supplied with the skin protection equipment specified in Section 8.

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

SECTION 15. Regulatory information

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

General designations (laws):

- EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization 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. Corrigendum (OJ No. L 396, 30.12.2006 Corrigendum – OJ No. L 136/3 2007 5 29).
- 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 (OJ 2008 L 353, p.1).
- 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) (OJ L 203, 26.6.2020 p. 28–58).

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

European Parliament and Council regulation of March 31st, 2004, no. 648/2004/EB and the change 907/2006/EB on detergents (EU Official Gazette. L104, 2004-08-08, p.1 No. L168, 2006-06-21, p.5).

- 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, Official Gazette, 2011, No. 112-5274 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, Official Gazette, 2018-06-15, No. 9988).

- Packaging and packaging waste regulations, new redaction (Approved by the Minister of Environment of the Republic of Lithuania on the 31th of March, order No. D1-225, Official Gazette., 2016-01-01, No. 2016-06779).

- 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, Official Gazette., 2011, no. 57-2721), and amendments approved by the Minister of the Environment in 2015 June 23 by order No. D1-489 (Official Gazette, 25/06/2015, No. 10138) and December 29, 2017, by order No. D1-1061 (Official Gazette, 2018-01-02, No. 57).

- Employees with personal protective equipment regulations. (Approved by the Ministry of Social Security and Labour Minister in November 26th, 2007, order No. A1-331, Official Gazette., 2007, 123-5055) and the change, approved by the Minister of Social Security and Labor of the Republic of Lithuania in April 19, 2018, by order No. A1-170 (Official Gazette, 2018-04-20, No. 2018-06281).

15.2 Chemical safety assessment

For mixture - not applicable. Complete for components.

SECTION 16. Other information

Substances in a mixture with specific concentration limits for classification of the mixture according to Regulation 1272/2008 / EC or after registration under REACH.

EB No.	CAS No.	REACH Registration No.	Chemical name	Specific concentration limits
231-595-7	----	-----	Hydrochloric acid ...%	Skin Corr. 1B; H314: C ≥ 25% Skin Irrit. 2; H315: 10% ≤ C < 25% Eye Irrit. 2; H319: 10% ≤ C < 25% STOT SE 3; H335: C ≥ 10% Met. Corr. 1; H290; C ≥ 10%

Hazard classes and categories, hazard phrases texts and other marks interpretations, mentioned in Section 3 and 16:

Hazard classes and categories	Hazard statements and additional hazard information
Met. Corr.1; Corrosive to metals, category 1	H290 May be corrosive to metals.
Acute Tox. 4; Acute Toxicity, category 4	H302 Harmful if swallowed.
Skin Corr. 1B; Skin Corrosion, category 1B	H314 Causes severe skin burns and eye damage.
Eye Dam. 1; Eye Damage, category 1	H318 Causes serious eye damage.
Eye Irrit. 2; Eye Irritation, category 2	H319 Causes serious eye irritation.

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Skin Irrit. 2;	Skin Irritation, category 2	H315 Causes skin irritation.
STOT SE 3;	Specific target organ toxicity – single exposure, category 3	H335 May cause respiratory irritation
Skin Sens. 1;	Skin sensitization, category 1	H317 May cause an allergic skin reaction.
Skin Sens. 1B	and subcategory 1B	
Flam. Liq. 3;	Flammable liquid, category 3	H226 Flammable liquid and vapor.
Asp. Tox. 1;	Aspiration toxicity, category 1	H304 Ingestion and inhalation can cause death.
Aquatic Chronic 3;	Aquatic hazard (long-term), category 3	H412 Harmful to aquatic life with long lasting effects.
Aquatic Acute 1;	Aquatic hazard (acute), category 1	H400 Very toxic to aquatic life.
Aquatic Chronic 1;	Aquatic hazard (long-term), category 1	H410 Very toxic to aquatic life with long lasting effects.

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 safety data sheet (version 4) has been revised due to changes in the product composition and classification and labeling of the product.

During the revision of the safety data sheet, changes were made in sections 2; 3; 1; 9; 11; 15 and 16.

This safety data sheet must be available to anyone whose work is associated with a chemical agent. The data correspond to our current knowledge and is intended to describe safety, health and environmental aspects. The safety data sheet information will be updated with new data on the chemical preparation on health and environmental risks, preventive measures to reduce or to avoid.

The safety data sheet does not constitute any specific chemical substance properties.

End of Safety Data Sheet