SAFETY DATA SHEET

According to Reg. (EC) No 1907/2006 modified by Reg. (EU) No 2020/878

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

1.1. Product identifier: URANIA liquid disinfecting hand dishwashing detergent

1.2. Relevant identified uses of the mixture: biocidal product, product type: 4 for professional use
For hand dishwashing to clean and disinfect in the first sink of the two-sink dishwashing technology.

Active substance: **didecyldimethylammonium chloride** (DDAC) is listed for all product types of disinfectants in the Reg. (EU) No 1062/2014 on the work programme for the systematic examination of all existing active substances contained in biocidal products referred to in Reg. (EU) No 528/2012.

Microbiological spectrum: bactericidal (including MRSA), fungicidal, virucidal activity

Uses advised against: other than above

1.3. Details of the supplier of the safety data sheet: CLEAN CENTER KFT.

Address: H-1164 Budapest, Csókakő u. 35.
Phone number: +36 20583 4371
E-mail: info@cleancenter.hu
Website: www.cleancenter.hu

1.4. Emergency telephone numbers:

Hungarian Health & Toxicological Information Service: Working hours: +36 1 4766464
24 hrs service: +36 80 201199
Poison Control Centres in EU: https://poisoncentres.echa.europa.eu/appointed-bodies
https://echa.europa.eu/hu/support/helpdesks

SECTION 2: HAZARD IDENTIFICATION

2.1. Classification of the mixture: the product is a **hazardous mixture** according to manufacturer and in compliance with Reg. (EC) No 1272/2008 and its modifications.

Classification:		Hazard class	Category
Physical hazard:	not classified		
Health hazard:	Skin Corr. 1B	Skin corrosion/irritation	1B
	Eye Dam. 1	Serious eye damage/eye irritation	1
Environmental hazard[1]:	Aquatic Acute 1	Short term (acute) hazard to the aquatic environment	1
	Aquatic Chronic 3	Long term (chronic) hazard to the aquatic environment	3

2.2. Label elements

Pictograms: GHS05 and GHS09

Signal word: DANGER

Hazard statements

H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing and eye 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.

[1] In case of Aquatic Acute 1 and Aquatic Chronic 3 hazard the associated hazard statement of H410 is used on the label

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, doctor.
P314 Get medical attention if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container in accordance with national regulations.

The product label shall comply with the requirements of Art. 69 of Reg. (EU) No 528/2012.

3.2. Other hazards

The product does not contain any PBT, vPvB components according the criteria set out in Annex XIII of REACH Regulation. The product does not contain substances classified as SVHC (Substances of Very High Concern) and substances which are on the candidate list of SVHC published by the European Chemicals Agency (https://echa.europa.eu/candidate-list-table).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance: does not apply.
3.2. Mixture: the product is a mixture.
Hazardous components which must be listed according to Reg. (EU) No 2020/878 are listed in the table below.

Hazardous components	Concentration	Hazard class, hazard category, H-statement
Didecyldimethylammonium chloride* CAS No: 7173-51-5 EC No: 230-525-2 Index No: 612-131-00-6	12%	Acute Tox. 4 (oral), H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400, $M_{(acute)}$: 10 Aquatic Chronic 2, H411
Alcohols (C_{12-15}), ethoxylated** CAS No: 68131-39-5 EC No: 500-195-7	5 – <15%	Acute Tox. 4 (oral), H302; Eye Dam. 1, H318; Aquatic Chronic 3, H412
Amides, coco, N,N-bis(hydroxyethyl)*** CAS No: 68603-42-9 EC No: 271-657-0	5 – <15%	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 2, H411
Isopropyl alcohol CAS No: 67-63-0 EC No: 200-661-7 Index No: 603-117-00-0	1 – <5%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

* Chemical name: N,N-didecyl-N,N-dimethylammonium chloride; name: harmonised classification is silent about acute and chronic hazard to the aquatic environment; hazard classes are given according to safety data sheet of the supplier.
** There is no harmonised classification of the substance.
*** INCI name: COCAMIDO DEA, there is no harmonised EU classification of the substance.

The other components (non-ionic surfactant, perfume, colorant, water, etc.) are not hazardous, or their concentrations are low enough not to be taken into consideration in the classification and labelling of the product according to the relevant regulations.
Hazard classes, H-statements relate to pure components.
Hazard classification of the product is given in Section 2.
Full texts of the H-statements and hazard classes, categories are listed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

Fast and professional first aid measures can largely diminish progress and severity of the symptoms.
General information: If toxic symptoms develop or suspicion of intoxication arises the work should be immediately discontinued. Immediately move affected person away from the source of exposure to fresh air or to a well-ventilated room and after onsite first aid medical attention should be provided. Show the label or safety data sheet of the product. Never give drink and never induce vomiting if the victim is unconscious or suffers from convulsions.

Inhalation: not relevant exposure.

Eye contact: flush eyes with large amount of lukewarm water holding the eyelids wide open and moving eyeballs continuously for at least 15 minutes. After first aid immediately seek ophthalmologist especially if symptoms are severe or persist after washing.

Skin contact: Wash off thoroughly the affected skin with running water after removing contaminated clothing and shoes. Contact a physician if symptoms persist.

If swallowed: DO NOT INDUCE vomiting! Take care to avoid the risk of foam aspiration. If vomiting occurs, keep head low so that stomach content does not get into lungs. Wash out mouth cavity with water if the victim is conscious. Let conscious person drink plenty of water.

Protection of first aiders: First aid personnel should wear appropriate protective equipment if there is risk of eye and skin contact.

4.2. Most important symptoms and effects, both acute and delayed: skin burns and eye damage. Symptoms may become worse if first aid is not thorough enough.

4.3. Indication of any immediate medical attention and special treatment needed: Severity of the symptoms vary depending on the concentration and length of exposure. Note to the physician: treat according to symptoms.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media: water spray, water fog, dry powder, carbon-dioxide.
Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media: strong water jet

5.2. Special hazards arising from the substance or mixture: toxic gases can be formed: carbon oxides, nitrogen oxides.

5.3. Advice for firefighters: adapt firefighter protective equipment to surrounding fire. Wear self-contained breathing apparatus and full protective gear in case of chemical fire. Use water spray to keep fire-exposed containers cool.
Do not allow contaminated firefighting water to enter sewers, surface water, or ground water systems.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Take care of risk of slipping. Keep unauthorised persons away. Personal protective equipment is required (protective gloves, protective clothes and safety glasses) during decontamination of large quantities. Refer to protective measures listed in Section 8. The risk zone must be closed down and the decontamination must be performed by trained persons equipped with protective equipment. Avoid any exposure to the product.

6.1.1. For non-emergency personnel: do not touch and walk into spilled material.

6.1.2. For emergency responders: Keep unnecessary and unprotected persons away from the spillage. Wear protective equipment given in Section 8. Prevent further leakage or spillage if safe to do so. Take care of the risk of slipping.

6.2. Environmental precautions: Prevent entry into drains, sewers and water-bodies. Dispose of waste in accordance with national regulations of hazardous waste. Inform authorities if large amounts are involved.

6.3. Methods and material for containment and cleaning up: In the event of a major spillage, absorb large quantities into inert material with extreme absorbing properties, such as sand, earth, diatomaceous earth, vermiculite. Remove contaminated sorbent in labelled containers, keep it closed and dispose according to national regulations.
Residues should be cleaned up by washing with plenty of water.
In case of minor spillage, the usual clean-up methods are suitable, flush small spills with plenty of water.

6.4. Reference to other sections: see also Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Read and follow manufacturer's recommendations on the label.
Handle in accordance with usual practice of handling chemicals.
Work watchfully to avoid splashing, spilling, contact of skin and eyes.
There is risk of slipping on the floor. Do not mix with other household cleaning and disinfecting products.

Hygiene measures: Do not eat, drink or smoke while handling. Wash hands thoroughly after handling the concentrated product. Take off the clothes, shoes contaminated with the concentrated product

Fire and explosion protection: no special measures are required.

7.2. Conditions for safe storage, including any incompatibilities
Store in the original packaging upright, in a cool, dry, well-ventilated, frost-free area.
Keep away from food, drinks, feeding stuffs, heat and direct sunlight.
Keep out of reach of children and pets. Recommended storage temperature: 5 – 30°C.
Consider storage conditions during transport.
Shelf life: 24 months from date of manufacture if it is stored properly.

7.3. Specific and uses(s): see Section 1.2. Use in the first sink in the two-sink hand dishwashing technology, where in the first sink/phase degreasing and disinfecting occur in one step. Field of use: catering, food industry, public catering, canteens, healthcare institutions, food and beverage production. User category: professional
Users should always read the instructions for use and follow the instructions for safe handling and use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters/ Occupational exposure limits
Isopropyl alcohol: TWA: 999 mg/m^3, STEL: 1250 mg/m^3 (EH40/2005, Fourth Edition 2020)
ÁK: 500 mg/m^3, CK: 1000 mg/m^3 – 5/2020. (II.6.) ITM Hungarian decree
GESTIS International limit values: https://limitvalue.ifa.dguv.de
Occupational exposure limits in the air are not set up for the other ingredients of the product.

8.2. Exposure controls
Care must be taken to prevent exposure to the product (contact of skin and eyes, ingestion). General occupational and hygiene measures should be kept during handling the product.
Wear protecting equipment while handling the product in its concentrated form.
Do not get the product on open wounds, skin and mucous membranes.
Workers should be aware that the concentrated product can cause serious eye damage and skin burns.
Engineering controls

- Ensure that the usual protective measures of handling chemicals are kept.
- Provide appropriate personal protective equipment, eye-wash bottle or eye-wash fountain, safety shower near working area.

Hygiene measures

- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after handling.
- Work watchfully to avoid splashing, spilling, contact of skin and eyes with concentrated product.

Personal protective equipment

- **Eye/face protection:** Wear safety glasses/googles complying with EN 166 standard if splashing is possible, in case of industrial operations, decontamination, handling large quantities, mixing and loading etc. Keep eyewash bottle ready and easily accessible at workplace.
- **Hand and skin protection:** Wearing resistant gloves (e.g.: nitrile rubber) and working clothes are recommended when handling large quantities, during decontamination, industrial operations, during mixing and loading, etc. After skin contact with concentrated product, immediately wash skin with running water.
- **Respiratory protection:** not necessary.
- **Thermal hazard:** not relevant.

Environmental exposure controls: Observe handling, loading and storage measures. Large quantities should be stored to prevent from entering watercourses, soil, sewerage system. Avoid release into sewers, drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Appearance:	coloured liquid, homogenous, transparent, clear
Odour:	perfumed
Odour threshold:	not determined
pH:	7.0 at 20°C
Melting point:	not relevant
Initial boiling point and range:	no data
Flash point:	> 75°C, predicted
Evaporation rate:	no data
Flammability (solid, gas):	not relevant
Explosive properties:	not explosive
Explosive limits.:	no data
Vapour pressure:	no data
Vapour density:	no data
Density:	1.02 g/cm^3 at 20°C
Solubility:	unlimited in water
Partition coefficient (log$P_{o/w}$):	not relevant, it is a mixture
Auto-ignition temperature:	not self-igniting

Decomposition temperature:	no data, does not decompose at ambient temperature
Viscosity:	no data
Particle characteristics:	not relevant
Oxidising properties:	not considered to have oxidising properties

9.2. Other information

9.2.1. Information with regard to physical hazard classes: classification of the product into physical hazard classes is not necessary according to the composition, its isopropyl alcohol content less than 5%.

9.2.2. Other safety characteristics: not known.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: not reactive. No dangerous reaction is known under condition of normal use.

10.2. Chemical stability: stable if it is handled and stored according to instructions.

10.3. Possibility of hazardous reactions: not known.

10.4. Conditions to avoid: heat, frost, mixing with incompatible materials.

10.5. Incompatible materials: do not mix with other household cleaning products and disinfecting agents.

10.6. Hazardous decomposition products: not known at normal use, storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

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

No toxicological study was performed with this product.

Classification of the product is based on composition and classification f ingredients.

Acute toxicity (oral, dermal and inhalation): criteria for classification into acute toxicity hazard classes are not met according to ATE_{mix} values.

Skin corrosion/irritation: based on composition the product is considered to be skin corrosive, classification into hazard class Skin Corr. 1B is necessary.

Serious eye damage/eye irritation: based on available data classification criteria are met. The product can cause serious eye damage; classification: Eye Dam. 1.

Respiratory or skin sensitization: sensitization is not expected based on the available data and information of the ingredients.

Carcinogenicity: classification criteria are not met for carcinogen hazard class based on the information and data of the ingredients. None of the components is considered as carcinogen.

Germ-cell mutagenicity: based on available data classification criteria are not met, components are not mutagenic.

Reproductive toxicity: not known, based on available data and information classification criteria are not met. None of the components has reproductive toxicity.

Specific target organ toxicity single exposure (STOT SE): based on composition and information on the ingredients the classification criteria are not met for this hazard class.

Specific target organ toxicity repeated exposure (STOT RE): based on composition and information on the ingredients the classification criteria are not met for this hazard class.

Aspiration hazard: not anticipated to present aspiration hazard based on composition.

11.2. Information on other hazards: ingestion can cause damage to mucous membranes and gastrointestinal tract.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: no ecotoxicological study was performed. Due to the concentration and M-factors of didecyldimethylammonium chloride the product is very toxic to aquatic life with long lasting effects according to Table 4.1.1. and 4.1.2. of Reg. (EC) No 1272/2008.

Acute and chronic toxicity testing data of didecyldimethylammonium chloride

LC_{50} (*Brachydanio rerio*, 96 h): 0.1 – 1 mg/L
EC_{50} (*Daphnia magna*, 48 h): 0.06 mg/L; NOEC (21 days): 0.021 mg/L
EC_{50} (*Selenastrum Caprcornutum,* 96 h): 0.12 mg/L

12.2. Persistence and degradability: a didecyldimethylammonium chloride is readily biodegradable (OECD 301D), isopropyl alcohol is also biodegradable. The surfactant(s) contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request.

12.3. Bioaccumulative potential: not expected based on $logP_{o/w}$ values of the components.

Didecyldimethylammonium chloride: BCF: 2.1

12.4. Mobility in soil: likely mobile.

12.5. Results of PBT- and vPvB assessment: not available, didecyldimethylammonium chloride and isopropyl alcohol are not PBT, and vPvB substances according to available adopted BPC opinion.

12.6. Endocrine disrupting properties: components are not considered to have endocrine disrupting properties. None of the components is classified as carcinogen category 2 and toxic for reproduction category 2.
Didecyldimethylammonium chloride has no ED properties with respect to humans and with respect to non-target organism no conclusion can be drawn based on the available data according to adopted BPC opinion.

12.7. Other adverse effects: not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
The generation of waste should be minimised or avoided wherever possible.
This product and its container must be disposed of in a safe way.
Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and national authority requirements.
When handling waste, the safety precautions applying to handling of the product should be considered.
Do not empty waste into drains, rivers, watercourses, ponds, standing waters, natural waterways.
Contact your sales representative or local environmental or health authorities for approved disposal methods.

EWC code may vary depending on place of use, circumstances of waste generation.

SECTION 14: TRANSPORT INFORMATION

According to the international transport (ADR/RID, IMDG and ICAO/IATA) regulations the product **is dangerous goods.**

14.1. UN number or ID number: 1903

14.2. UN proper shipping name: DISINFECTANT LIQUID, CORROSIVE, N.O.S.
(contains: didecyldimethylammonium chloride)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

14.5. Environmental hazards: yes

14.6. Special precautions for users:

ADR/RID: Special provisions: 274,
Classification code: C9, Hazard identification No: 80, Labels: 8
Transport category: 3 Tunnel restriction code: (E)
Limited quantities: 5 L, Excepted quantities: E1

IMDG: EmS: F-E, S-D

14.7. Maritime transport in bulk according to IMO instruments: not relevant

SECTION 15: REGULATORY INFORMATION

15.1. Safety health and environmental regulations/legislation specific for mixture
Relevant European Acts

Regulation (EU) No 528/2012 of the European parliament and of the Council concerning the making available on the market and use of biocidal products and its modifications

Regulation (EU) No 1062/2014 on the work programme for systematic examination of all existing active substances contained in biocidal product referral to in Reg (EU) No 528/2012

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and its modifications

Regulation (EC) No 1272/2008 and of the European Parliament and of the Council on Classification, labelling and packaging of substances and mixtures and its modifications

Council Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste

15.2. Chemical safety assessment: has not been carried out.

SECTION 16: OTHER INFORMATION

The safety data sheet applies to the delivered product.
The information contained in the safety data sheet is correct to our best knowledge on the date of issue.
Safety data sheet is intended as a guide for safe use, handling, disposal, storage and transport of the delivered product.
Safety data sheet does not replace product specification.
The information contained in the safety data sheet does not represent a guarantee of product properties nor does it create any legal obligation.
Consumers, users themselves are responsible for the risks and hazards resulting from the use of the product.
Manufacturer, distributor do not assume any warranty or responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected to the handling, storage, use or disposal of the product because conditions of application, handling, storage, use or disposal of the product is beyond their control.

Training recommendation: In the annual occupational safety training workers should be informed about the hazards of handling hazardous chemicals and the general safety and health protection measures.

SAFETY DATA SHEET SHOULD ALWAYS BE AVAILABLE FOR WORKERS AT HAND.

Classification of the product: the product is classified by calculations methods in accordance with Reg (EC) No 1272/2008.

Full text of H-statements and hazard classes, codes for the pure substance(s) referred to in Section 3:
Acute Tox.: acute toxicity, Aquatic Acute: hazardous to the aquatic environment, acute hazard; Aquatic Chronic: hazardous to the aquatic environment, chronic hazard; Eye Dam.: serious eye damage; Skin Irrit.: skin irritation; Skin Corr.: skin corrosion; Flam. Liq.: flammable liquids; STOT SE: specific target organ toxicity – single exposure

H225	Highly flammable vapor and liquid.
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.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Other abbreviations

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ÁK	allowable average concentration of a substance in the air of the workplace acceptable during 8 hours work shift
ATE_{mix}	Acute Toxicity Estimate
BCF	bioconcentration factor
BPC	Biocidal Product Committee
CAS	Chemical Abstract Service, number for the identification of chemical substances
CK	allowable peak concentration of a substance refers to acceptable exposure in the air of the workplace over a short period of time.
CLP	Classification, Labelling, Packaging –used as abbreviation of Regulation (EC) No 1272/2008
EC_{50}	50% of maximal Effective Concentration
ECHA	European Chemicals Agency
EH/2005	workplace exposure limits; https://www.hse.gov.uk/pubns/priced/eh40.pdf
EDS	Endocrine Disruptor Substance
EWC	European Waste Catalogue
GESTIS	Information system on hazardous substance of German Social Accident Insurance
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization Technical Instruction for the Safe Transport of Dangerous Goods by Air
IMDG	International Maritime Dangerous Goods Code
M	multiplying factor, it is used to derive by summation method the classification of mixtures
LC_{50}	lethal concentration to 50% of a test population (median lethal concentration)

LD_{50}	Lethal dose to 50% of a test population (median lethal dose)
$logP_{o/w}$	logarithm of n-octanol-water partition coefficient ($K_{o/w}$)
$M_{(acute)}$	M-factor of aquatic acute toxicity
$M_{(chronic)}$	M-factor of aquatic chronic toxicity
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bio accumulative and toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Reg. 1907/2006/EC
RID	Dangerous Goods Regulations – International Carriage of Dangerous Goods by Rail
STEL	Short-term exposure limit - 15 minutes reference period
SVHC	Substance of Very High Concern
TWA	long-term workplace exposure limit - 8 hr reference period
vPvB	very Persistent and very Bio accumulative

History: This safety data sheet (version: 1.0-EN) is issued 25 January 2021.

Occupational safety advice for safe use of the product: +36 2 0582 4371 (9:00 – 14:00 on weekdays)

Safety data sheet can be downloaded from site: