



## 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: **KLINIKO-SUN liquid disinfectant**

**1.2. Relevant identified uses of the mixture:** biocidal product, product types: 2 and 4, for professional use

Ready to use product, cleans and disinfects surfaces in on step.

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, yeasticidal 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](mailto:info@cleancenter.hu)

Website: [www.cleancenter.hu](http://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 **non-hazardous mixture** according to manufacturer and in compliance with Reg. (EC) No 1272/2008 and its modifications. Classification:

<b>Physical hazard:</b>	not classified
<b>Health hazard:</b>	not classified
<b>Environmental hazard:</b>	not classified

#### 2.2. Label elements

**Pictogram:** not necessary

**Signal word:** not necessary

**Hazard statements:** not necessary

#### Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P270 Do not eat, drink or smoke when using this product.

P314 Get medical attention if you feel unwell.

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.

The other components (non-ionic surfactant, water, etc.) are not hazardous, or their concentrations are low enough not to be taken into consideration in the classification of the product according to the relevant regulations.



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	0.125%	Acute Tox. 4 (oral), H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400, M <sub>(acute)</sub> : 10 Aquatic Chronic 2, H411
Isopropyl alcohol CAS No: 67-63-0 EC No:200-661-7 Index No: 603-117-00-0	<1%	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336

\* Chemical name: N,N-didecyl-N,N-dimethylammonium chloride; 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.

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 on-site first aid medical attention should be provided.

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. Seek ophthalmologist if symptoms persist after washing.

**Skin contact:** Wash off thoroughly the affected skin with running water. Contact a physician if symptoms persist.

**If swallowed:** DO NOT INDUCE vomiting! Wash out mouth cavity with water if the victim is conscious. Let conscious person drink plenty of water.

**4.2. Most important symptoms and effects, both acute and delayed:** not known.

**4.3. Indication of any immediate medical attention and special treatment needed:** not known.

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:** not known.

**5.2. Special hazards arising from the substance or mixture:** not known.

**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.

Do not allow contaminated firefighting water to enter sewer, surface water, or ground water systems.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedure

Take care of risk of slipping. Personal protective equipment is required (protective gloves, protective clothes and safety glasses) during decontamination of large quantities. The risk zone must be closed down and the decontamination must be performed by trained persons equipped with the necessary protective equipment.

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

**6.1.2. For emergency responders:** Keep unnecessary persons away from the spillage. Wear protective equipment as described 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 or water-bodies. Dispose of waste in accordance with national regulations of hazardous waste.

**6.3. Methods and material for containment and cleaning up:** In the event of a major spillage, absorb large quantities of product 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. 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.

There is risk of slipping on the floor. Do not mix with other household cleaning and disinfecting products.

**Fire and explosion protection:** no special measures are required.

**Hygiene measures:** Do not eat, drink or smoke while handling. Wash hands after handling.

### 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 and feeding stuffs.

Keep out of reach of children.

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. User category: professional

Disinfection of washable surfaces (massage beds, furniture, furnishings, sun-tanning devices, air conditioners, etc. in institutional area, at wellness centres, fitness rooms, beauty centres and in pharmaceutical industry, in cosmetic industry. 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<sup>3</sup>, STEL: 1250 mg/m<sup>3</sup> (EH40/2005, Fourth Edition 2020)

ÁK: 500 mg/m<sup>3</sup>, CK: 1000 mg/m<sup>3</sup> – 5/2020. (II.6.) ITM Hungarian decree

GESTIS International limit values: <https://limitvalue.ifa.dguv.de>

### 8.2. Exposure controls

#### Engineering controls

- Ensure that the usual protective measures of handling chemicals are kept.

#### Hygiene measures

- Do not eat, drink or smoke while handling.
- Wash hands thoroughly after handling.

#### Personal protective equipment

- **Eye/face protection:** not necessary.  
Wear safety glasses complying with EN 166 standard if splashing is possible, in case of industrial operations, decontamination, handling large quantities, etc.
- **Hand and skin protection:** not necessary  
Wearing protective gloves complying with EN 374 standard (nitrile rubber, latex) are recommended when handling large quantities and during decontamination.
- **Respiratory protection:** not necessary.
- **Thermal hazard:** not relevant.

**Environmental exposure controls:** 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, clear
Odour:	perfumed
Odour threshold:	not determined
pH:	6.0 – 6.5 at 20°C
Melting point:	not relevant
Initial boiling point and range:	not determined
Flash point:	> 100°C, predicted
Evaporation rate:	no data
Flammability (solid, gas):	not relevant



Explosive properties:	none, not considered to be explosive
Explosive limits.:	not relevant
Vapour pressure:	no data
Vapour density:	no data
Density:	1.00 g/cm <sup>3</sup> at 20°C
Solubility:	unlimited in water
Partition coefficient (logP <sub>o/w</sub> ):	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 into physical hazard classes is not necessary according to the composition.

9.2.2. Other safety characteristics: not known.

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** not reactive; no dangerous reaction occurs 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:** excessive heat, ignition sources, frost.

**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 of ingredients.

**Acute toxicity (oral, dermal and inhalation):** criteria for classification into acute toxicity hazard classes are not met according to ATE<sub>mix</sub> values.

**Skin corrosion/irritation:** based on composition the product is not classified.

**Serious eye damage/eye irritation:** based on available data classification criteria are not met.

**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 ingredients. None of the components is classified 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 information on the ingredients the classification criteria are not met.

**Specific target organ toxicity repeated exposure (STOT RE):** based on 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:** not known.

## SECTION 12: ECOLOGICAL INFORMATION

**12.1. Toxicity:** no ecotoxicological study was performed.

The product is not classified into Aquatic Acute and Aquatic Chronic hazard classes according to the concentration of didecyltrimethylammonium chloride in accordance with Table 4.1.1 and 4.1.1.2. of Reg. (EC) No 1272/2008.

**12.2. Persistence and degradability:** didecyltrimethylammonium chloride is readily biodegradable (OECD 301D), isopropyl alcohol is biodegradable



**12.3. Bioaccumulative potential:** not expected based on  $\log P_{ow}$  values of the components.

Didecyldimethylammonium chloride: BCF (bioconcentration factor): 2.1.

**12.4. Mobility in soil:** likely mobile.

**12.5. Results of PBT- and vPvB assessment:** not available, likely the components are not PBT, and vPvB substances.

**12.6. Endocrine disrupting properties:** components are not considered to have endocrine disrupting properties. Components are not classified into STOT RE hazard classes.

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 on it.

**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.

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.

This product and its container can be disposed as household waste.

EWC code (07 06 99) may vary depending on place of use, circumstances of waste generation.

## SECTION 14: TRANSPORT INFORMATION

According to the international transport (ADR/RID, IMDG, ICAO/IATA) regulations the product **is not dangerous goods**.

**14.1. UN number or ID number:** not relevant.

**14.2. UN proper shipping name:** not relevant.

**14.3. Transport hazard class(es):** not relevant.

**14.4. Packing group:** not relevant.

**14.5. Environmental hazards:** not relevant.

**14.6. Special precautions for users:** not relevant.

**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; it 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 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 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 Irrit.: eye irritation; Eye Dam.: serious eye damage; Skin Corr.: skin corrosion; Flam. Liq.: flammable liquids; STOT SE: specific target organ toxicity, single exposure

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
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.

#### 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 h work shift
ATE <sub>mix</sub>	Acute Toxicity Estimate
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
ECHA	European Chemicals Agency
EH/2005	workplace exposure limits; <a href="https://www.hse.gov.uk/pubns/priced/eh40.pdf">https://www.hse.gov.uk/pubns/priced/eh40.pdf</a>
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
M <sub>(acute)</sub>	M-factor of aquatic acute toxicity
M <sub>(chronic)</sub>	M-factor of aquatic chronic toxicity
logP <sub>o/w</sub>	logarithm of n-octanol-water partition coefficient (K <sub>o/w</sub> )
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
v/v%	volume/volume %

**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: