



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-SPEED disinfectant

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

Active substances: **alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride (ABDAC/BKC)** and **N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Diamine)** are listed in product types 2 and 4 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 (HBV/HIV)

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 Irrit. 2	Skin corrosion/irritation	2
	Eye Irrit. 2	Serious eye damage/eye irritation	2
Environmental hazard:	Aquatic Chronic 3	Long term (chronic) hazard to the aquatic environment	3

2.2. Label elements

Pictogram: GHS07



Signal word: WARNING

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

P260 Do not breathe spray.

P264 Wash hands thoroughly after handling.

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

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical attention.

P362+P364 Take off contaminated clothing and wash it before reuse.



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, aqueous solution.

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
Alkyl(C ₁₂₋₁₆) dimethylbenzylammonium chloride* CAS No: 68424-85-1 EC No: 270-325-2	1.5%	Acute Tox. 4 (oral), H302; Skin Corr. 1B, H314; Eye Dam. 1, H318; STOT SE 3, H335; Aquatic Acute 1, H400, M _(acute) : 10 Aquatic Chronic 1, H410, M _(chronic) : 1
Edetic acid (EDTA) CAS No: 60-00-4 EC No: 200-449-4 Index No: 607-429-00-8	<5%	Eye Irrit. 2, H319
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine** CAS No: 2372-82-9 EC No: 219-145-8	0.5%	Acute Tox. 3 (oral), H301; Skin Corr. 1A, H314; Eye Dam. 1, H318; STOT RE 2, H373; Aquatic Acute 1, H400, M _(acute) : 10 Aquatic Chronic 1, H410, M _(chronic) : 1

* As no harmonised classification exists, classification given above is based on adopted BPC opinion on the application for approval of alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride in product type 4 (ECHA/BPC/268/2020)

** Classification is from safety data sheet of the substance as there is no harmonised classification of it.

The other components 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 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: Move to fresh air. Get medical attention if symptoms persist.

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 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! 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 and let conscious person drink plenty of water.

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

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: strong water jet

5.2. Special hazards arising from the substance or mixture: in fire 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.

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. 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 the 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 and unprotected persons away from the spillage. Wear protective equipment as 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 or water-bodies. Dispose of waste in accordance with national regulations of hazardous waste. Inform authorities if large amount is involved.

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. 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. Avoid breathing the spray of the product.

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. Take off the contaminated, soaked clothing.

Wash off the affected skin with running water.

Fire and explosion protection: no special measures are necessary.

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 feedstuffs.

Protect from 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.

For disinfection of washable surfaces, furniture, desks, operating tables, examination tables, hospital beds with mechanical fittings, dentists' chairs, etc. It can be used in health care, institutional areas, food industry, catering, canteens, wellness centres, fitness rooms, medical, surgical, dental or veterinary practice, etc.

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

No occupational exposure limit in air is set up on ingredients of the product.

8.2. Exposure controls

Care must be taken to prevent exposure to the product, general occupational and hygiene measures should be kept during handling the product.

Engineering controls

- Ensure that the usual protective measures of handling chemicals are kept.
- Provide adequate ventilation and personal protective equipment.

Hygiene measures

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

Personal protective equipment

- **Eye/face protection:** Wearing safety glasses is recommended if splashing is possible, in case of industrial operations, decontamination, handling, loading large quantities, etc. Personal protective equipment for eye protection should comply with EN 166 standard.
- **Hand and skin protection:** Wearing resistant gloves (e.g. nitrile rubber) are recommended in case of long-term work and when handling large quantities, during decontamination, industrial operations, loading, etc.
- **Respiratory protection:** not necessary.
- **Thermal hazard:** not relevant.

Environmental exposure controls: Observe handling, loading and storage measures. Avoid release into sewers, drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Appearance:	colourless, homogenous, clear
Odour:	odourless
Odour threshold:	not relevant
pH:	11 – 11.2 at 20°C
Melting point:	not relevant
Initial boiling point and range:	not determined
Flash point:	>100°C, not relevant as it is aqueous solution
Evaporation rate:	no data, similar to water
Flammability (solid, gas):	not relevant
Explosive limits.:	no data
Vapour pressure:	no data
Vapour density:	no data
Density:	1.0 g/cm ³ at 20°C
Solubility:	unlimited in water
Partition coefficient (logP _{o/w}):	not relevant, it is a mixture
Auto-ignition temperature:	no data
Decomposition temperature:	no data, does not decompose at ambient temperature
Kinematic viscosity:	no data
Particle characteristics:	not relevant
Explosive properties:	not considered to be explosive
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 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 and 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): classification into acute oral toxicity hazard class is not necessary according to oral ATE_{mix} value (> 2000 mg/bw), and also it is not necessary to classify the product as acutely toxic after dermal exposure and after inhalation of it.

Skin corrosion/irritation: based on composition the product is considered to be irritant, classification into hazard class Skin Irrit. 2 is necessary.

Serious eye damage/eye irritation: based on available data classification criteria are met. The product can cause eye irritation, classification: Eye Irrit. 2

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 as concentration of N-(3-aminopropyl)-N-dodecylpropane-1,3-diamin is much lower than concentration limit that triggers classification into STOT RE 2 hazard class/category.

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

11.2. Information on other hazards: ingestion of large quantities may cause nausea, pain and vomiting.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: no ecotoxicological study was performed.

Due to the concentration of active substances the product is harmful to aquatic life with long lasting effects according to Table 4.1.1 and Table 4.1.2. in Reg. (EC) No 1272/2008.

Data for alkyl (C₁₂₋₁₆) dimethylbenzylammonium chloride:

EC₅₀ (*Daphnia magna*, 48 h): 0.016 mg/L – EU C.2.

ErC₅₀ (*Daphnia magna*, 48 h): 0.03 mg/L – OECD 201

NOEC (*Daphnia magna*, 21 d): 0.025 mg/L – OECD 211

LC₅₀ (fish, 96 h): 0.515 mg/L, NOEC (28 d): 0.0322 mg/L

Data for N-(3-aminopropyl)-N-dodecylpropane-1,3-diamin:

EC₅₀ (*Lepomis macrochirus*; *Oncorhynchus mykiss*, 96 h): 0.45 mg/L; 0.68 mg/L

ErC₅₀ (*Daphnia magna*, 48 h): 0.073 mg/L; NOEC (*Daphnia magna*, 21 d): 0.024 mg/L

ErC₅₀ (*Pseudokirchneriella subcapitata*, 72 h; 96 h): 0.012 – 0.054 mg/L

LC₅₀ (fish, 96 h): 0.515 mg/L, NOEC (28 d): 0.0322 mg/L

12.2. Persistence and degradability:

Alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride is readily biodegradable: 60 – 95% (28 day) – OECD 301B

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamin: 79% (28 days) – OECD 301D

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

Alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride: logP_{o/w}: 0.5 – 2.75 and BCF: 67 – 160

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamin: logP_{o/w}: 0.34 – 0.66

Edetic acid: logP_{o/w}: - 3,86

12.4. Mobility in soil: likely mobile.



12.5. Results of PBT- and vPvB assessment: not available for all components. alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride is not PB, and vPvB substance, but toxic to aquatic environment according to adapted BPC opinions.

12.6. Endocrine disrupting properties: components are not considered to have endocrine disrupting properties. N-(3-aminopropyl)-N-dodecylpropane-1,3-diamin is classified into STOT RE 2 hazard class, based on the results of the repeated dose oral toxicity studies with rats showing tubular nephropathy of the kidneys
Alkyl(C₁₂₋₁₆) dimethylbenzylammonium 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 opinions.
None of the components is classified as carcinogen category 2 and toxic for reproduction category 2.

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, 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, 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 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 the 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; STOT RE: specific target organ toxicity, repeated exposure; STOT SE: specific target organ toxicity, single exposure.

H302 Harmful if swallowed.

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

Other abbreviations

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE_{mix} Acute Toxicity Estimate

BCF bioconcentration factor

BPC Biocidal Product Committee

CAS Chemical Abstract Service, number for the identification of chemical substances

CLP Classification, Labelling, Packaging –used as abbreviation of Regulation (EC) No 1272/2008

EC₅₀ 50% of maximal Effective Concentration

ECHA European Chemicals Agency

EDS Endocrine Disruptor Substance

EWC European Waste Catalogue

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

LC₅₀ lethal concentration to 50% of a test population (median lethal concentration)

LD₅₀ 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

SVHC Substance of Very High Concern



vPvB very Persistent and very Bioaccumulative

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: