



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: **KIM disinfecting liquid hand dishwashing detergent**

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

Use in the first sink of the two-sink manual dishwashing technology where cleaning/degreasing and disinfection take place in the first sink in one step.

Active substance: **alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride (ABDAC/BKC)** is listed in product type 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, 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

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 hazard¹:	Aquatic Acute 1	Short term (acute) hazard to the aquatic environment	1
	Aquatic Chronic 2	Long term (chronic) hazard to the aquatic environment	2

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.

P273 Avoid release to the environment.

P280 Wear protective gloves, protective clothing, 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 2 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.

P314 Get medical attention if you feel unwell.
P363 Wash contaminated clothing before reuse.
P391 Collect spillage.
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, aqueous solution.

Hazardous components which must be listed according to Reg. (EU) No 2020/878 are listed in the table below.

None of the components has harmonised classification, hazard class and hazard category are given according to safety data sheet of the component.

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	7,5%	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
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts** CAS No: 61789-40-0 EC No: 263-058-8	5 – 15%	Eye Dam. 1, H318; Aquatic Chronic 3, H412
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

* 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)

** INCI name: COCAMIDOPROPYL BETAINE; it has harmonised classification, hazard class, category is given according to supplier.

*** INCI name: COCAMIDO DEA; component has harmonised classification, hazard class, category is given the supplier.

The other components (water, glutamic acid, perfume, colorant, 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. 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, non-realistic 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: Remove contaminated clothing and shoes. Wash off thoroughly the affected skin with running water. Contact a physician if symptoms persist.

If swallowed: DO NOT INDUCE vomiting because it can cause further laryngeal corrosion. Wash out mouth cavity with water if the victim is conscious. Let conscious person drink plenty of water to dilute the ingested product. Seek immediate medical attention, or call Poison Centre. Show the label and/or the safety data sheet of the product to physician.

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

4.2. Most important symptoms and effects, both acute and delayed: May cause chemical burns on skin and eyes irritation, tearing, blurred vision, redness may occur, etc. Symptoms may become worse if first aid was 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, dry foam, 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.

Keep containers cool by water spray.

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

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 personnel equipped with the necessary protective equipment. Avoid any exposure to the product.

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

6.1.2. For emergency responders: keep unnecessary and unprotected persons away. Wear protective equipment as given in Section 8. Take care of the risk of slipping.

6.2. Environmental precautions: Avoid discharge into drains or water-bodies. Prevent spilled material without treatment from entering soil, sewers, drains, and natural waterways. Comply with all national regulation pertaining to handling and disposal 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, properly labelled 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.

Take care of slipping. 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 required.



7.2. Conditions for safe storage, including any incompatibilities: Store in the original packaging, upright, in a dry, cool, well-ventilated, frost-free area. Keep away from food, feed, reach of children and pets.

Recommended storage temperature: 5 – 30°C.

Consider storage conditions during transport.

Shelf life: 12 months from date of manufacture if it is stored properly.

7.3. Specific and uses(s): see Section 1.2.

For manual dishwashing in catering, canteens, institutional area, food and beverage industries.

It should be used in the first sink of a two-phase manual dishwashing technology where cleaning/degreasing and disinfection take place in the first sink in one step. User category: for professional use.

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. 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.

Hygiene measures

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

Personal protective equipment

- **Eye/face protection:** wear safety glasses if splashing is possible, in case of industrial operations, decontamination, handling large quantities and mixing and loading, etc. Personal protective equipment for eye protection should comply with EN 166 standard. Keep eyewash bottle ready and easily accessible at the workplace.
- **Hand and skin protection:** wearing resistant gloves (e.g. latex, nitrile rubber) complying with EN 374 standard are recommended. When choosing the material of the gloves, take in consideration the expected exposure to the product (short or long exposure times, mechanical stress, risk of full contact, risk of splash etc.). Data on permeability, break-through time and mechanical resistance of the gloves are given by the manufacturers of gloves. After skin contact with concentrated product, wash affected skin immediately 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, scented liquid, homogenous, clear
Odour:	perfumed
Odour threshold:	not determined
pH:	9.2 – 10.2 at 20°C
Melting point:	not relevant
Initial boiling point and range:	not determined
Flash point:	>100°C, predicted, not relevant as it is aqueous solution
Evaporation rate:	no data, similar to water
Flammability (solid, gas):	not relevant
Upper/lower explosive limits:	not relevant, not considered to be explosive
Vapour pressure:	no data
Vapour density:	not relevant
Density:	1.01 g/cm ³ at 20°C



Solubility:	unlimited in water
Partition coefficient (logP _{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
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.

10.2. Chemical stability: stable if it is handled, 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 of 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 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 chemicals.

Reproductive toxicity: not known, based on available data and information classification criteria are not met. None of the components is toxic to reproduction.

Specific target organ toxicity single exposure (STOT SE): based on data and information on the ingredients the classification criteria are not met.

Specific target organ toxicity repeated exposure (STOT RE): based on data 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 of large quantities may cause damage to mucous membranes and gastrointestinal tract. See also Section 4.2.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity: no ecotoxicological study was performed.

Due to the concentration and M-factors of alkyl (C₁₂₋₁₆) dimethylbenzylammonium chloride the product is very toxic to aquatic life with long lasting effects according to Table 4.1.1 and 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 day): 0.025 mg/L – OECD 211



LC₅₀ (fish, 96 h): 0.515 mg/L

NOEC (28 day): 0.0322 mg/L

12.2. Persistence and degradability: the surfactant(s) contained in this mixture 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.

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

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

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

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.

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.

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 the adopted BPC opinions.

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 also 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 (07 06 01*) 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: alkyl(C₁₂₋₁₆) dimethylbenzylammonium chloride)

14.3. Transport hazard class(es): 8

14.4. Packing group: III

14.5. Environmental hazards: yes, marine pollutant

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-A, S-B

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 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 Dam.: serious eye damage; Skin Irrit.: skin irritation; Skin Corr.: skin corrosion; STOT SE: specific target organ toxicity, single exposure.

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
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.
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
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
INCI	International Nomenclature of Cosmetics Ingredients
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
STP	Sewage Treatment Plant
SVHC	Substance of Very High Concern
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: