

Technical Data Sheet

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Properties:	AKEMI® Disinfectant Cleaner is a highly concentrated and therefore especially economic cleaner based on organic acids with non-ionic and cationic surfactants and odorous substances. The product is free from phosphates and strong inorganic acids; the surfactants contained are biodegradable in correspondence with the legal regulations for surfactants.
Application Area:	AKEMI® Disinfectant Cleaner is suited to the regular cleaning of acid-resistant natural and artificial stones, tiles and synthetic materials as well as glass and stainless steel in kitchens, swimming pools, toilets, shower and bathrooms. On account of its special formula, it is not detrimental to chrome fittings and separating shower walls made of aluminium. In order to ensure simple and economic use, the diluted solution can be filled up in a normal household spray bottle (please keep out of the reach of children).
Instructions for Use:	<ol style="list-style-type: none">1. Apply undiluted or dilute with water up to a ratio of 1:50 (approx. 100 ml to 5 liter of water).2. Allow the product to work for several minutes.3. Rinse thoroughly with water.4. Brilliance can be intensified by polishing.
Special Notes:	<ul style="list-style-type: none">- Do not apply on synthetic materials which are not resistant to acids, s. a. polished marble or similar. If in doubt, test on an inconspicuous area.- For adequate waste disposal container must be completely emptied.
Technical Data:	Coverage: approx. 10 - 20 m ² /liter (if applied purely). If diluted in a ratio of 1:50, the cleaner is sufficient for approx. 500 – 1,000 m ² Colour: light yellow Density: approx. 1.09 g/cm ³ pH value: approx. 1
Storage:	2 years if stored in cool place free from frost in its tightly closed original container.
Health & Safety:	Read Material Safety Data Sheet before handling or using this product.
Important Notice:	The above information is based on the latest stage of development and application technology. Due to a multiplicity of different influencing factors, this information – as well as other oral or written technical advises – must be considered as non-binding hints. The user is obliged in each particular case to conduct performance tests, including but not limited to trails of the product, in an inconspicuous area or fabrication of a sample piece.

TDS 10.18

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 05.03.2021

Version number 12

Revision: 05.03.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name: **Disinfectant Cleaner**
- Article number: 10826, 10827
- UFI: RGK5-6609-V011-G48T

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

No further relevant information available.

- Application of the substance / the mixture Cleaning agent/ Cleaner

1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
- Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

- Further information obtainable from: Laboratory

1.4 Emergency telephone number:

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.
+44 (171) 635 91 91
National Poison Inform. Centre
Medical Toxicology Unit
Avalonley Road
London SE14 5ER

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008
- Skin Corr. 1B H314 Causes severe skin burns and eye damage.
- Eye Dam. 1 H318 Causes serious eye damage.
- Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008
- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



GHS05 GHS09

- Signal word Danger

- Hazard-determining components of labelling:

Alcohols, C13-C15 branched and linear, ethoxylated
Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride
H314 Causes severe skin burns and eye damage.
H411 Toxic to aquatic life with long lasting effects.

- Hazard statements

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P260 Do not breathe mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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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].
 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.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

- Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 77-92-9 EINECS: 201-069-1	citric acid Eye Irrit. 2, H319	12.5-25%
CAS: 157627-86-6 Reg.nr.: 02-2119548515-35-0000	Alcohols, C13-C15 branched and linear, ethoxylated Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 3, H412	<10%
CAS: 68424-85-1 EC number: 939-253-5 Reg.nr.: 01-2119965180-41-xxxx	Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	1-5%

- Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Rinse out mouth and then drink plenty of water. Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

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- **5.3 Advice for firefighters**
- Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
- **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Keep receptacles tightly sealed.
- Information about fire - and explosion protection: No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
Protect from frost.
- Storage class: 8 B
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride

Oral	DNEL (Langzeit-wiederholt)	3.4 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	5.7 mg/kg bw/day (ARB) 3.4 mg/kg bw/day (BEV)
Inhalative	DNEL (Langzeit-wiederholt)	3.96 mg/m ³ Air (ARB) 1.64 mg/m ³ Air (BEV)

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· PNECs**68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride**

PNEC (wässrig)	0.4 mg/l (KA)
	0.00096 mg/l (MW)
	0.0009 mg/l (SW)
	0.00016 mg/l (WAS)
PNEC (fest)	7 mg/kg Trockengew (BO)
	13.09 mg/kg Trockengew (MWS)
	12.27 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.· **8.2 Exposure controls**· Personal protective equipment:· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

· Respiratory protection:

Not necessary if room is well-ventilated.

· Protection of hands:

Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of protective gloves:

STOKODERM (<http://www.stoko.com>)

Skin protection agent recommendation for preventive skin shelter in application and combination of protective gloves:

STOKO EMULSION (<http://www.stoko.com>)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (<http://www.stoko.com>)

Skin protection agent recommendation for skin aftercare:

STOKO VITAN (<http://www.stoko.com>)

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory analyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: <http://www.kcl.de>).



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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- Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
Value for the permeation: Level ≤ 6, 480 min
- For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR
Camatril (KCL, Art_No. 730, 731, 732, 733)
- As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR
Camatril (KCL, 730, 731, 732, 733)
- Not suitable are gloves made of the following materials: Leather gloves
Strong material gloves
- Eye protection:  Tightly sealed goggles
- Body protection: Protective work clothing

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**· General Information· Appearance:Form:

Fluid

Colour:

According to product specification

· Odour:

Mild

· pH-value at 20 °C:

1

· Change in conditionMelting point/freezing point:

Undetermined.

Initial boiling point and boiling range: 100 °C· Flash point:

Not applicable.

· Ignition temperature:

1 °C

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Vapour pressure at 20 °C:

23 hPa

· Density at 20 °C:1.08 g/cm³· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Viscosity:Dynamic:

Not determined.

Kinematic at 20 °C:

11 s (DIN 53211/4)

· Solvent content:Organic solvents:

0.1 %

Water:

63.9 %

Solids content:

38.9 %

· **9.2 Other information**

No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with alkali and metals.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral	LD50	>3,094-5,733 mg/kg (rat)
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77-92-9 citric acid

Oral	LD50	5,040 mg/kg (mouse) 3,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	LD50 Intraperitoneal	940 mg/kg (mouse) 725 mg/kg (rat)
	LC50/48h	440 mg/l (Leuciscus idus) (OECD-Prüfrichtlinie 203)

157627-86-6 Alcohols, C13-C15 branched and linear, ethoxylated

Oral	LD50	>500-2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
	LC50/48h	1-10 mg/l (Oncorhynchus mykiss)

68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride

Oral	LD50	397.5 mg/kg (rat)
Dermal	LD50	3,412 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information**12.1 Toxicity**Aquatic toxicity:**77-92-9 citric acid**

LC50	>10,000 mg/l (pseudomonas putida) (OECD 306) 425 mg/l (Scenedesmus quadricauda)
LC50/24h	1,535 mg/l (daphnia magna)
EC5/16h	>10,000 mg/l (pseudomonas putida)
EC5/72h	485 mg/l (Entosiphon sulcatum)
IC5/7d	640 mg/l (Scenedesmus quadricauda)
EC50/72h	120 mg/l (daphnia magna)
LC50/96h	1,516 mg/l (Iepomis macrochirus) 440-760 mg/l (Leuciscus idus)

157627-86-6 Alcohols, C13-C15 branched and linear, ethoxylated

EC50/48h	1-10 mg/l (daphnia magna)
EC10	>1,000 mg/l (BES)
EC50/72h	1-10 mg/l (Scenedesmus subspicatus)

68424-85-1 Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride

EC50	7.75 mg/l (BES)
LC50	7,070 mg/l (Eisenia fetida (Regenwürmer))
EC50/48h	0.016 mg/l (daphnia magna)
ErC50/72h	0.049 mg/l (Pseudokirchneriella subcapitata)
NOEC	0.032 mg/l (Pimephales promelas)
NOEC/21d	0.0042 mg/l (daphnia magna)
LC50/96h	0.28 mg/l (Pimephales promelas)

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information:General notes:

Do not allow product to reach ground water, water course or sewage system.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

Uncleaned packaging:Recommendation:

Disposal must be made according to official regulations.
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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SECTION 14: Transport information

· 14.1 UN-Number · <u>ADR, IMDG, IATA</u>	UN3265
· 14.2 UN proper shipping name · <u>ADR</u> · <u>IMDG</u> · <u>IATA</u>	3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride), ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride), MARINE POLLUTANT CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Quarternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chloride)
· 14.3 Transport hazard class(es) · <u>ADR</u>   · <u>Class</u> · <u>Label</u>	8 (C3) Corrosive substances. 8
· <u>IMDG</u>   · <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8
· <u>IATA</u>  · <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8
· 14.4 Packing group · <u>ADR, IMDG, IATA</u>	II
· 14.5 Environmental hazards: · <u>Marine pollutant:</u> · <u>Special marking (ADR):</u>	Product contains environmentally hazardous substances: No Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user · <u>Hazard identification number (Kemler code):</u> · <u>EMS Number:</u> · <u>Segregation groups</u> · <u>Stowage Category</u> · <u>Stowage Code</u>	Warning: Corrosive substances. 80 F-A,S-B Acids B SW2 Clear of living quarters.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

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· Transport/Additional information:· ADR· Excepted quantities (EQ)

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· IMDG· Limited quantities (LQ)· Excepted quantities (EQ)

1L

Code: E2

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 500 ml

· UN "Model Regulation":

UN 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (QUARTEINARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDE), 8, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**· Directive 2012/18/EU· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Seveso category

E2 Hazardous to the Aquatic Environment

· Qualifying quantity (tonnes) for the application of lower-tier requirements

200 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· National regulations:· Waterhazard class:

Water hazard class 2 (Self-assessment): hazardous for water.

· VOC EU

0.3 g/l

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS:

Laboratory

· Contact:

Elke Hake
 Fon ++49 (0)911 64296-59
 @mail E.Hake@akemi.de

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
 ICAO: International Civil Aviation Organisation

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ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· * Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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