Safety data sheet according to 1907/2006/EC, Article 31

MATEM 18

Printing date 22.08.2018 Version number 3 Revision: 22.08.2018

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

· 1.1 Product identifier

· Trade name: Algae and Mildew Remover Longlife

· Article number: 10983, 10984

 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

Biocide

Cleaning agent/ Cleaner

· 1.3 Details of the supplier of the safety data sheet

AKEMI chemisch technische Spezialfabrik GmbH Manufacturer/Supplier:

Tel. +49(0)911-642960 Fax. +49(0)911-644456 Lechstrasse 28 D 90451 Nürnberg e-mail info@akemi.de

· Further information obtainable from:

· 1.4 Emergency telephone

Laboratory

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



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aguatic 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:

alkyl(C=12-18) benzyl dimethyl ammonium chloride Alcohols, C13-C15 branched and linear, ethoxylated

· Hazard statements H314 Causes severe skin burns and eye damage. H411 Toxic to aquatic life with long lasting effects.

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· Precautionary statements	P101	If medical advice is needed, have product container or laborat hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
	P260	Do not breathe mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/fac protection.
	P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
		B IF ON SKIN (or hair): Take off immediately all contaminate clothing. Rinse skin with water [or shower].
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minute Remove contact lenses, if present and easy to do. Continurinsing.
	P312	Call a POISON CENTER/doctor if you feel unwell.
	P405	Store locked up.
	P501	Dispose of contents/container in accordance with loca regional/national/international regulations.
· 2.3 Other hazards		
Results of PBT and vPvB asse		
· <u>PBT:</u>	Not applicable.	
· vPvB:	Not applicable.	

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

• <u>Description:</u> Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
preservation agents	Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute Tox. 4, H302	12.5-25%
non-ionic surfactants	Eye Dam. 1, H318 Acute Tox. 4, H302 Aquatic Chronic 3, H412	1-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents	
alkyl(C=12-18) benzyl dimethyl ammonium chloride	≥15 - <30%
non-ionic surfactants	<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: Take affected persons out into the fresh air.

Position and transport stably in side position.

Immediately remove any clothing soiled by the product.

· After inhalation: In case of unconsciousness place patient stably in side position for

transportation.

· After skin contact: If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

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• 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 If s

If swallowed, gastric irrigation with added, activated carbon.

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 Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NOx) Hydrogen cyanide (HCN) Carbon monoxide (CO)

· 5.3 Advice for firefighters

• Protective equipment: Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

Collect contaminated fire fighting water separately. It must not enter the sewage

system.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and

<u>emergency procedures</u> Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

• **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for

<u>containment and cleaning up:</u> Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

 \cdot 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.

Avoid splashes or spray in enclosed areas.

Ensure good ventilation/exhaustion at the workplace.

Information about fire - and

<u>explosion protection:</u> No special measures required.

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· 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

Prevent any seepage into the ground.

· Information about storage in one common storage facility:

Store away from oxidising agents. Store away from foodstuffs.

· Further information about storage

conditions:

Keep container tightly sealed.

No further relevant information available. · 7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

Additional information about

design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· 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. The lists valid during the making were used as basis.

· Additional information:

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic

measures:

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

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Use suitable respiratory protective device only when aerosol or mist is formed. · Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· 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 anylyses 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

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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.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

<u>Material of gloves</u>
 Butyl rubber, BR

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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material Value for the per

<u>al</u> Value for the permeation: Level \leq 6, 480 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

• For the permanent contact gloves made of the following materials are

suitable:

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

Nitrile rubber, NBR

Camatril (KCL, Art_No. 730, 731, 732, 733)

 As protection from splashes gloves made of the following materials are

suitable:

Butyl rubber, BR

Butoject (KCL, Art_No. 897, 898)

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: Colourless
Odour: Characteristic

· pH-value at 20 °C: 7

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 100 °C

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· Flash point:	200 °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 g/cm³
Solubility in / Miscibility with water:	Fully miscible.
Viscosity: Dynamic: Kinematic at 20 °C:	Not determined. 11 s (DIN 53211/4)
Solvent content: Organic solvents: Water:	0.0 % 56.0 %
Solids content: • 9.2 Other information	25.0 % No further relevant information available.

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

10.2 Chemical stability
 Thermal decomposition / conditions to be avoided:

litions to be avoided: No decomposition if used and stored according to specifications.

· 10.3 Possibility of hazardous

reactions
· 10.4 Conditions to avoid

Reacts with strong oxidising agents.

No further relevant information available.

No further relevant information available.

· 10.6 Hazardous decomposition

· 10.5 Incompatible materials:

products:

Carbon monoxide

Ammonia

Nitrogen oxides (NOx) Possible in traces.

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 2,579-3,052 mg/kg (rat)

68391-01-5 alkyl(C=12-18) benzyl dimethyl ammonium chloride

Oral LD50 650 mg/kg (rat)
Dermal LD50 3,340 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.

· CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity
 Carcinogenicity
 Reproductive toxicity
 STOT-single exposure
 Based on available data, the classification criteria are not met.
 Based on available data, the classification criteria are not met.
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• 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.

SECTION 12: Ecological information

· 12.1 Toxicity

Aquatic toxicity:

68391-01-5 alkyl(C=12-18) benzyl dimethyl ammonium chloride

EC50 7.75 mg/l (BES)

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
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· Additional ecological information:

• General notes: 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 Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· European waste catalogue

20 00 00 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

20 01 00 separately collected fractions (except 15 01)

20 01 29* detergents containing hazardous substances

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN-Number · ADR, IMDG, IATA	UN1760
 · 14.2 UN proper shipping name · ADR · IMDG 	1760 CORROSIVE LIQUID, N.O.S. (alkyl(C=12-18) benzyl dimethyl ammonium chloride), ENVIRONMENTALLY HAZARDOUS CORROSIVE LIQUID, N.O.S. (alkyl(C=12-18) benzyl dimethyl ammonium chloride), MARINE POLLUTANT

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· <u>IATA</u>	CORROSIVE LIQUID, N.O.S. (alkyl(C=12-18) benzyl dimethy ammonium chloride)
· 14.3 Transport hazard class(es)	
· ADR	
· <u>Class</u> · <u>Label</u>	8 (C9) Corrosive substances.
· IMDG	
· <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8
· IATA	
· <u>Class</u> · <u>Label</u>	8 Corrosive substances. 8
· 14.4 Packing group · ADR, IMDG, IATA	II
14.5 Environmental hazards:Marine pollutant:	Product contains environmentally hazardous substances: No Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
 14.6 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Corrosive substances. 80 F-A,S-B
Stowage CategoryStowage Code	B SW2 Clear of living quarters.
· 14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
<u>ADR</u> <u>Limited quantities (LQ)</u> Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Transport category Tunnel restriction code	2 E
· <u>IMDG</u> · <u>Limited quantities (LQ)</u>	1L
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· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. (ALKYL(C=12-18) BENZYL DIMETHYL AMMONIUM 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

- REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· National regulations:

· <u>Information about limitation of use:</u> Employment restrictions concerning juveniles must be observed.

Employment restrictions concerning pregnant and lactating women must be

observed.

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

- VOC EU 0.0 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. 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.

· Recommended restriction of use refer to Technical Data Sheet (TDS)

Department issuing SDS: Laboratory

- Contact: Dieter Zimmermann

· 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)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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)

LC50: Lethal concentration, 50 percent

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LD50: Lethal dose, 50 percent

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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

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

GR -