

**Technical Data Sheet**

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- Properties:** AKEMI® Stone Cleaner is an acid-free, highly concentrated cleaning agent made of non-ionic surfactants, auxiliary agents, odoriferous substances and solvents. The product is free from phosphates and bases; The surfactants contained are biodegradable according to current legislation for surface-active agents. When used properly, surfaces made of natural and artificial stone which have been treated with AKEMI® Stone Cleaner are toxicologically harmless upon contact with food in accordance with DIN 10516 (confirmed by an external German testing institute).
- Application Area:** AKEMI® Stone Cleaner is suited for a rapid and thorough removal of building material, wax and self-brilliant layers, thin concrete layers, oil and grease, soot, rubber and tar spots as well as residuals of synthetic colours and synthetic plastering on all natural and artificial stones, e.g. marble, travertine, slate, granite, bricks and cotto slabs, tiles, fair-faced concrete, cement tiles and similar materials.
- Instructions for Use:**
1. Dilute with water in the ratio of 1:1 to 1:500 and apply to stone surface.
  2. Allow the cleaner to work for 10 - 20 minutes.
  3. For deep staining scrub with a brush or nylon pad.
  4. Rinse thoroughly with water.
- Special Notes:**
- Do not apply on synthetic materials which are not resistant to solvents or rubber. If in doubt, test on an inconspicuous area.
  - For proper waste disposal, the container must be completely emptied.
- Technical Data:**
- |           |   |
|-----------|---|
| Coverage: | approx. 10 - 20 m <sup>2</sup> /liter (undiluted) |
| Colour:   | colourless-yellowish                              |
| Density:  | approx. 1.01 g/cm <sup>3</sup>                    |
| pH value: | approx. 10 (if concentrated)                      |
- Storage:** If stored in dry and cool condition (5-25°C/41-77°F) in its closed original container at least 24 months from production.
- Health & Safety:** Read 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 05.21

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 18.03.2021

Version number 19

Revision: 18.03.2021

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

#### 1.1 Product identifier

- Trade name: **Stone Cleaner**
- Article number: 10808, 10812, 10813
- UFI: 23RJ-Q4XQ-Q014-PA6H

#### 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      Tel. +49(0)911-642960  
Lechstrasse 28      Fax. +49(0)911-644456  
D 90451 Nürnberg      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  
Eye Dam. 1 H318 Causes serious eye damage.

#### 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

- Signal word Danger

- Hazard-determining components of labelling:

Alcohols, C13-C15 branched and linear, ethoxylated

- Hazard statements H318 Causes serious eye damage.

- 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.  
P280 Wear protective gloves / eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- Additional information: Contains isoeugenol. May produce an allergic reaction.

#### 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

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**Trade name: Stone Cleaner**· vPvB: Not applicable.

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**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures**· Description: Mixture of substances listed below with nonhazardous additions.· Dangerous components:

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	12.5-25%
CAS: 112-34-5 EINECS: 203-961-6 Index number: 603-096-00-8 Reg.nr.: 01-2119475104-44-xxxx 02-2119751533-40-0000	2-(2-butoxyethoxy)ethanol Eye Irrit. 2, H319	<12.5%
CAS: 37199-81-8	Maleic acid, polymer with diisobutene, sodium salt Eye Irrit. 2, H319	1-5%

· Regulation (EC) No 648/2004 on detergents / Labelling for contents

non-ionic surfactants	≥15 - <30%
perfumes, 4-tert-butylcyclohexyl acetate	<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.  
Immediately remove any clothing soiled by the product.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: Rinse with warm water.

· After eye contact: Immediately wash with water and soap and rinse thoroughly.  
Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: If symptoms persist consult doctor.

**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: CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**5.2 Special hazards arising from the substance or mixture**

No further relevant information available.

**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**

Particular danger of slipping on leaked/spilled product.

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- **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 containment and cleaning up:** Dispose of the material collected according to regulations. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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** Ensure good ventilation/exhaustion at the workplace.
- **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:** Protect from frost.
- **Storage class:** 12
- **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:**

**112-34-5 2-(2-butoxyethoxy)ethanol**

WEL	Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm
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- **DNELs**

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	DNEL (Langzeit-wiederholt)	5 mg/kg bw/day (BEV)
Dermal	DNEL ( Langzeit-wiederholt)	83 mg/kg bw/day (ARB)
		50 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	101.2 mg/m <sup>3</sup> Air (ARB)
		7.5 mg/m <sup>3</sup> Air (BEV)
		DNEL (Langzeit-wiederholt)
		40.5 mg/m <sup>3</sup> Air (BEV)

- **PNECs**

**112-34-5 2-(2-butoxyethoxy)ethanol**

PNEC (wässrig)	200 mg/l (KA)
	0.1 mg/l (MW)

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PNEC (fest)	1 mg/l (SW) 3.9 mg/l (WAS) 0.32 mg/kg Trockengew (BO) 0.44 mg/kg Trockengew (MWS) 4.4 mg/kg Trockengew (SWS)
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- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures:

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.
- Respiratory protection:

Not necessary if room is well-ventilated.  
 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 in application and combination of protective gloves:  
 STOKO EMULSION (<http://www.stoko.com>)  
 STOKODERM (<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.

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

### · Material of gloves

Butyl rubber, BR

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 permeation: Level ≤ 6, 480 min

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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)

· As protection from splashes gloves made of the following materials are suitable:

Fluorocarbon rubber (Viton)  
Vitoject (KCL, Art\_No. 890)  
Nitrile rubber, NBR  
Camatril (KCL, 730, 731, 732, 733)

· Not suitable are gloves made of the following materials:

Natural rubber, NR  
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 InformationAppearance:

Form:	Fluid
Colour:	Light yellow
Odour:	Characteristic

· pH-value at 20 °C: 10

Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C

· Flash point: Not applicable.

· Ignition temperature: 225 °C

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	0.9 Vol %
Upper:	5.9 Vol %

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.02 g/cm<sup>3</sup>

· Solubility in / Miscibility with water:

Fully miscible.

Viscosity:

Dynamic:	Not determined.
Kinematic at 20 °C:	13 s (DIN 53211/4)

Solvent content:

Organic solvents:	12.1 %
Water:	66.5 %

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Solids content: 27.4 %

· **9.2 Other information** 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:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **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 &gt;2,778-11,111 mg/kg (rat)

**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)

**112-34-5 2-(2-butoxyethoxy)ethanol**

Oral	LD50	2,410 mg/kg (mouse)
		>2,000 mg/kg (rat)
Dermal	LD50	2,764 mg/kg (rbt)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **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 (carcinogenicity, 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.

**SECTION 12: Ecological information**· **12.1 Toxicity**· **Aquatic toxicity:****157627-86-6 Alcohols, C13-C15 branched and linear, ethoxylated**

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

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EC50/72h 1-10 mg/l (Scenedesmus subspicatus)

**112-34-5 2-(2-butoxyethoxy)ethanol**

EC50/24h 2,850 mg/l (daphnia magna) (DIN 38412)

EC50/96h &gt;100 mg/l (Desmodesmus subspicatus)

&gt;100 mg/l (Scenedesmus subspicatus)

EC10/16h 1,170 mg/l (pseudomonas putida)

EC5 73 mg/l (Entosiphon sulcatum)

EC50/48h &gt;100 mg/l (daphnia magna)

NOEC &gt;100 mg/kg (Desmodesmus subspicatus)

EC10 &gt;1,995 mg/l (Klärschlamm: Atmungs-/Vermehrungshemmung)

EC50/72h &gt;100 mg/l (Desmodesmus subspicatus)

LC50/96h 1,300 mg/l (Iepomis macrochirus)

&gt;100 mg/l (Leuciscus idus)

1,150 mg/l (poecilia reticulata)

· **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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

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:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

· Recommended cleansing agents:

Water, if necessary together with cleansing agents.

**SECTION 14: Transport information**

· **14.1 UN-Number**

· ADR, ADN, IMDG, IATA

Void

· **14.2 UN proper shipping name**

· ADR, ADN, IMDG, IATA

Void

· **14.3 Transport hazard class(es)**

· ADR, ADN, IMDG, IATA· Class

Void

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· <b>14.4 Packing group</b> · ADR, IMDG, IATA	Void
· <b>14.5 Environmental hazards:</b> · Marine pollutant:	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Directive 2012/18/EU	
· <u>Named dangerous substances - ANNEX I</u>	None of the ingredients is listed.
· National regulations:	
· <u>Waterhazard class:</u>	Water hazard class 2 (Self-assessment): hazardous for water.
· <u>VOC EU</u>	122.9 g/l
· <b>15.2 Chemical safety assessment:</b>	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.

· <u>Relevant phrases</u>	H302 Harmful if swallowed. H318 Causes serious eye damage. H319 Causes serious eye irritation. H412 Harmful to aquatic life with long lasting effects.
· <u>Recommended restriction of use</u>	refer to Technical Data Sheet (TDS)
· <u>Department issuing SDS:</u>	Laboratory
· <u>Contact:</u>	Elke Hake Fon ++49 (0)911 64296-59 @mail E.Hake@akemi.de
· <u>Abbreviations and acronyms:</u>	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 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 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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- Sources REACH directive 1907/2006/EC
- \* Data compared to the previous version altered. Adaptation in accordance with REACH directive 1907/2006/EC
- Datasheet created on: 13.12.2019

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