4EMI

Tel. +49(0)911-642960

Printing date 01/20/2014 Reviewed on 01/20/2014

#### 1 Identification

· Product identifier

· Trade name: **Stone Cleaner** 

· Article number: 10808, 10812, 10813

· Relevant identified uses of the substance or mixture and uses

advised against No further relevant information available.

· Application of the substance / the

Cleaning agent/ Cleaner mixture

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH

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

The product has to be labelled due to the calculation procedure of the "General

· Information department: Laboratory

Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH · Emergency telephone number:

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.

#### 2 Hazard(s) identification

· Classification of the substance or mixture



**GHS05** Corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Risk of serious damage to eyes. Information concerning particular

hazards for human and

Classification guideline for preparations of the EU" in the latest valid version. The classification was made according to the latest editions of international · Classification system:

substances lists, and expanded upon from company and literature data.

Label elements

environment:

The product is classified and labeled according to the Globally Harmonized · GHS label elements

System (GHS).

· Hazard pictograms



GHS05

 Signal word Danger

· Hazard-determining components

of labeling:

Aliphatic alkohols, C13-C15, largely linear, ethoxylated

 Hazard statements H318 Causes serious eye damage.

· Precautionary statements If medical advice is needed, have product container or label P101

at hand.

P102 Keep out of reach of children. P103 Read label before use.

P280 Wear protective gloves / eye protection.

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

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

P315 Get immediate medical advice/attention.

· Classification system:

· NFPA ratings (scale 0 - 4)

Health = 2Fire = 0Reactivity = 0

0

· HMIS-ratings (scale 0 - 4)

Health = 2Fire = 0Reactivity = 0 REACTIVITY 0

· Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable. · vPvB: Not applicable.

#### 3 Composition/information on ingredients

· Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:			
	non-ionic surfactants	🗙 Xn R22; 🗙 Xi R41	12.5-25%
		♦ Eye Dam. 1, H318	
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	🗶 Xi R36	<12.5%
EINECS: 203-961-6		① Eye Irrit. 2, H319	
Index number: 603-096-00-8		,	

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

#### 4 First-aid measures

· 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.

Immediately wash with water and soap and rinse thoroughly.

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

No further relevant information available.

doctor.

 After swallowing: If symptoms persist consult doctor.

· Information for doctor:

· Most important symptoms and effects, both acute and delayed

· Indication of any immediate medical attention and special

No further relevant information available. treatment needed

#### 5 Fire-fighting measures

· Extinguishing media

CO2, extinguishing powder or water spray. Fight larger fires with water spray or Suitable extinguishing agents:

alcohol resistant foam.

· Special hazards arising from the

substance or mixture No further relevant information available.

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· Advice for firefighters

· Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective

equipment and emergency

procedures Particular danger of slipping on leaked/spilled product.

· 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.

· Methods and material for

containment and cleaning up: Dispose of the collected material according to regulations.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Ensure adequate ventilation.

· 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.

#### 7 Handling and storage

· Handling:

 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about protection

against explosions and fires: No special measures required.

#### · 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

Protect from frost. conditions:

· Storage class:

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

#### 8 Exposure controls/personal protection

Additional information about

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

Control parameters

· Components with limit values that require monitoring at the workplace:

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

TLV Long-term value: 67.5\* mg/m<sup>3</sup>, 10\* ppm

\*Inhalable fraction and vapor

 Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Personal protective equipment:

· General protective and hygienic

Immediately remove all soiled and contaminated clothing. measures:

Wash hands before breaks and at the end of work.

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# **AKEMI®**

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# Safety Data Sheet acc. to OSHA HCS

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**Trade name: Stone Cleaner** 

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

· Breathing equipment: 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 respiratory protective device that is

independent of circulating air.

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.

Akemi 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)

Akemi skin protection recommendation for skin cleaning after product handling:

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

Akemi 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 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

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)

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# Safety Data Sheet acc. to OSHA HCS

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**Trade name: Stone Cleaner** 

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Leather gloves

Strong gloves

· Eye protection:



Tightly sealed goggles

- Body protection: Protective work clothing

#### 9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

Form: Fluid
Color: Light yellow
Odor: Characteristic

· pH-value at 20 °C (68 °F):

Change in condition

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 100 °C (212 °F)

• Flash point: Not applicable.

• <u>Ignition temperature:</u> 225 °C (437 °F)

· <u>Auto igniting:</u> Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

10

Explosion limits:

<u>Lower:</u> 0.9 Vol % <u>Upper:</u> 5.9 Vol %

· Vapor pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

Density at 20 °C (68 °F):
 1.02 g/cm³ (8.512 lbs/gal)

- Specific gravity at 20 °C (68 °F): 1.02 g/cm³ (8.512 lbs/gal)

· Solubility in / Miscibility with

Water: Fully miscible.

· Viscosity:

<u>Dynamic:</u> Not determined. Kinematic at 20 °C (68 °F): 13 s (DIN 53211/4)

· Solvent content:

 Organic solvents:
 12.0 %

 Water:
 59.9 %

 Solids content:
 27.4 %

Other information
 No further relevant information available.

#### 10 Stability and reactivity

· Reactivity

· Chemical stability

 Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Possibility of hazardous

reactions

No dangerous reactions known.

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Conditions to avoid
 Incompatible materials:
 No further relevant information available.
 No further relevant information available.

Hazardous decomposition

**products:** No dangerous decomposition products known.

#### 11 Toxicological information

#### · Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### Aliphatic alkohols, C13-C15, largely linear, ethoxylated

Oral LD50 >2000 mg/kg (Rat)

LC50/48h 1 mg/l (Oncorhynchus mykiss)

· Primary irritant effect:

· on the skin: No irritant effect.

on the eye: Strong irritant with the danger of severe eye injury.

Sensitization: No sensitizing effects known.

· Additional toxicological

information: The product shows the following dangers according to internally approved

calculation methods for preparations:

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

#### 12 Ecological information

· Toxicity

Aquatic toxicity:

### Aliphatic alkohols, C13-C15, largely linear, ethoxylated

EC10 >1000 mg/l (BES)

EC50/48h 1-10 mg/l (daphnia magna)

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

· Persistence and degradability No further relevant information available.

· Behavior in environmental systems:

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

· Additional ecological information:

· General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Do not allow product to reach ground water, water course or sewage system.

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

· Results of PBT and vPvB assessment

PBT: Not applicable.√P∨B: Not applicable.

• Other adverse effects No further relevant information available.

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# Safety Data Sheet

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#### 13 Disposal considerations

· Waste treatment methods

Recommendation: Must be specially treated adhering to official regulations.

Must not be disposed of together with household garbage. Do not allow product

to reach sewage system.

Uncleaned packagings:

• Recommendation: Empty contaminated packagings thoroughly. They can be recycled after

thorough and proper cleaning.

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

#### 14 Transport information

· <u>UN-Number</u> · <u>DOT, ADR, ADN, IMDG, IATA</u>	Void
<ul> <li>UN proper shipping name</li> <li>DOT, ADR, ADN, IMDG, IATA</li> </ul>	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA · Class	Void
· <u>Packing group</u> · DOT, ADR, IMDG, IATA	Void
Environmental hazards:     Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Sara
- · Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

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

164462-16-2 Methylglycindiessigsäure Trinatriumsalz

7732-18-5 water, distilled, conductivity or of similarpurity

- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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# **AKEMI**®

## **Safety Data Sheet** acc. to OSHA HCS

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**Trade name: Stone Cleaner** 

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· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms

· GHS label elements



GHS05

· Signal word Danger

Hazard-determining components

of labeling:

Aliphatic alkohols, C13-C15, largely linear, ethoxylated

 Hazard statements H318 Causes serious eye damage.

If medical advice is needed, have product container or label Precautionary statements P101

at hand.

P102 Keep out of reach of children. P103 Read label before use.

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.

P315 Get immediate medical advice/attention.

National regulations:

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

122.9 g/l / 1.03 lb/gl VOC USA

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 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.

· Department issuing MSDS: Laboratory

· Contact: Dieter Zimmermann 01/20/2014 / -

· Date of preparation / last revision

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de Abbreviations and acronyms:

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists
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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent