

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.05.2018

Version number 5

Revision: 31.01.2018

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

### 1.1 Product identifier

Trade name: **Quartz Intensive Cleaner**

Article number: 11948, 11954, 11962

### 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

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

### 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.



GHS07

Signal word

Warning

Hazard-determining components of labelling:

Not applicable.

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P280	Wear eye protection / face 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.
P337+P313	If eye irritation persists: Get medical advice/attention.

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- **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:

	non-ionic surfactants	 Eye Dam. 1, H318  Acute Tox. 4, H302 Aquatic Chronic 3, H412	1-5%
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	1-5%

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

non-ionic surfactants, perfumes

&lt;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.  
No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: If skin irritation continues, consult a doctor.
- After eye contact: 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** If swallowed, gastric irrigation with added, activated carbon.

**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** Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide (CO)  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- Protective equipment: Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

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· Additional information (Contd. of page 2)  
 Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Product forms slippery surface when combined with water.  
 Ensure adequate ventilation
- **6.2 Environmental precautions:**  
 Use respiratory protective device against the effects of fumes/dust/aerosol.  
 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.  
 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).  
 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.  
 No dangerous substances are released.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
 No special measures required.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of aerosols.
- Information about fire - and explosion protection:  
 The product is not flammable.
- **7.2 Conditions for safe storage, including any incompatibilities**
- Storage:  
 Requirements to be met by storerooms and receptacles:  
 Information about storage in one common storage facility:  
 Store only in the original receptacle.  
 Store away from foodstuffs.  
 Store away from oxidising agents.
- Further information about storage conditions:  
 Protect from frost.
- **7.3 Specific end use(s)**  
 No further relevant information available.

**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:

**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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· Additional information:  
 The lists valid during the making were used as basis.

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**8.2 Exposure controls**

- Personal protective equipment:
- General protective and hygienic measures:

Avoid close or long term contact with the 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.  
Do not inhale gases / fumes / aerosols.

- Respiratory protection:
- Protection of hands:

Not required.  
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.  
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  
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 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

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- |   |   |
|---|---|
|   | Camatril (KCL, Art_No. 730, 731, 732, 733)                |
| · <u>As protection from splashes gloves made of the following materials are suitable:</u> | Nitrile rubber, NBR<br>Camatril (KCL, 730, 731, 732, 733) |
| · <u>Not suitable are gloves made of the following materials:</u>                         | Leather gloves<br>Strong material gloves                  |
| · <u>Eye protection:</u>  | Goggles recommended during refilling                      |

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

<u>Form:</u>	Fluid
<u>Colour:</u>	Colourless
<u>Odour:</u>	Characteristic

· pH-value at 20 °C: 9**· Change in condition**

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

· Flash point: Not applicable.· Auto-ignition temperature: Product is not selfigniting.· Explosive properties: Product does not present an explosion hazard.**· Explosion limits:**

<u>Lower:</u>	Not determined.
<u>Upper:</u>	Not determined.

· Vapour pressure at 20 °C: 23 hPa· Density at 20 °C: 1 g/cm<sup>3</sup>· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

**· Viscosity:**

<u>Dynamic:</u>	Not determined.
<u>Kinematic at 20 °C:</u>	11 s (DIN 53211/4)

**· Solvent content:**

<u>Organic solvents:</u>	1.2 %
<u>Water:</u>	96.0 %

Solids content: 5.5 %

**· 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 and stored according to specifications.

**· 10.3 Possibility of hazardous reactions**

Reacts with strong oxidising agents.

**· 10.4 Conditions to avoid**

No further relevant information available.

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- **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	27,778-111,111 mg/kg (rat)
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- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- 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: No further relevant information available.

· **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 undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly 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 Smaller quantities can be disposed of with household waste.

· European waste catalogue

20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
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20 01 00	separately collected fractions (except 15 01)
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20 01 29*	detergents containing hazardous substances
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- Uncleaned packaging:

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

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· Recommended cleansing agents: Alcohol

**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

**· 14.4 Packing group**

· ADR, IMDG, IATA Void

**· 14.5 Environmental hazards:**

· Marine pollutant: No

**· 14.6 Special precautions for user**

Not applicable.

**· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

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

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· REGULATION (EC) No 1907/2006 ANNEX XVII

Conditions of restriction: 3

· National regulations:

· Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· VOC EU

12.0 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.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 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)

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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  
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  
REACH directive 1907/2006/EC

· Sources

- \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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