

**Technical Data Sheet**

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**Properties:**

AKEMI® Liqui Polish Universal is a viscous, ready-to-use suspension consisting of inorganic polishing substances and auxiliary agents. The product is characterized by the following properties:

- universally applicable for hard and soft stone
- flowing, creamy consistency
- easy dosing
- odourless
- slightly alkaline
- wax-free
- gentle grinding and polishing procedure (no weakening of structure)
- work and grinding steps can be saved
- allows a lasting polish

**Application Area:**

AKEMI® Liqui Polish Universal increases the gloss level of pre-ground and polished hard and soft stone surfaces. Liqui Polish Universal is available in two versions: "black" for dark stone and "white" for light stone. The product is used for reworking or restoration of hard and soft stone workpieces, e.g. window sills, corners and edges, kitchen countertops, washbasins, drain surfaces, tombs, small areas and reliefs. Furthermore, light acid etching stains can be removed from marble and limestone.

**Instructions for Use:**

1. Shake vigorously before use.
2. Apply AKEMI® Liqui Polish Universal in the desired amount to the slightly humid surface.
3. Work the surface to be treated with a humid polishing felt or pad. If necessary, repeat the procedure until the desired gloss level is achieved. To cool the stone surface or the polishing pad it is possible to add some water. It is essential for a successful application to use a felt pad with a density of at least 0.56 to 0.64 g/cm<sup>3</sup>. We recommend to use the AKEMI® Liqui Polish Pad.
4. Depending on the specific type of stone, the surfaces must be pre-ground and free of scratches. Principally, dense limestone, onyx and marble (coarse-fine crystalline) must be pre-ground to a grain size of 400. Subsequently polish with AKEMI® Liqui Polish Universal. With hard stone, the situation is different; it is not possible to save as many grinding passes as with soft stone. Plutonic rock, such as granite, syenite, quartz syenite, orthogneiss, anorthosite, aplite, peridotite, larvikite, granodiorite, diorite, gabbro and tonalite should be ground conventionally up to a grain size of 1500. Then the treatment is carried out until polishing with AKEMI® Liqui Polish Universal. Dense effusive rocks, such as rhyolite, granite porphyry, dacite and alkaline effusive rocks, such as andesite, diabase, pikrite, lamporphyry, dolorit and other metamorphic rocks, such as granulite and metasomatic quartz should be ground conventionally to a grain size of 3000 and subsequently polished with AKEMI® Liqui Polish Universal.
5. Grinding residues can be removed from the stone surface with AKEMI® Stone Cleaner.

**Special Notes:**

- Softer felt pads or synthetic pads are not suitable and lead to an undesirable surface structure, so-called orange peel skin.
- Due to the diversity of stones, no generally binding statement can be made. Therefore, it is mandatory to lay out a sample area.

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- The product AKEMI® Liqui Polish Universal is to be understood and used as a tool.
- The users should tailor the processing to their requirements, needs and objectives.
- As with a new tool, the user needs some experience and skill to get maximum benefit from the product (time-cost savings).
- In some applications (e.g. floor coverings) it is necessary to consider the slip resistance. In such cases, the pre-grinding must not be too fine. The surfaces are only satinized (i.e. not very profiled: satin) or velvety (i.e. slightly profiled: velvet). However, this surface treatment can also be used as a design element for surfaces. As always, the principle also applies here: lay out a sample area!
- For proper waste disposal, the container must be completely emptied.

**Technical Data:**

Colour: white, black  
Density: approx. 1.60 g/cm<sup>3</sup>  
pH value: 8 - 9

**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.

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# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 18.05.2021

Version number 1

Revision: 18.05.2021

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

### 1.1 Product identifier

- Trade name: **Liqui Polish Universal**
- Article number: 11834, 11835
- UFI: MSD5-50FR-T00A-DQ46

### 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 Polishing agent/ Burnishing compound

### 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.

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008  
Skin Sens. 1 H317 May cause an allergic skin reaction.

### 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:

- Hazard statements H317 May cause an allergic skin reaction.
- 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.
  - P261 Avoid breathing mist/vapours/spray.
  - P280 Wear protective gloves.
  - P302+P352 IF ON SKIN: Wash with plenty of water.
  - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
  - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information: Contains biocidal products: 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one

### 2.3 Other hazards

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

### Results of PBT and vPvB assessment

- PBT: Not applicable.
- 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: 2682-20-4	2-methyl-2H-isothiazol-3-one	<1%
EINECS: 220-239-6	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330	
Index number: 613-326-00-9	Skin Corr. 1B, H314; Eye Dam. 1, H318	
Reg.nr.: 01-2120764690-50	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317; STOT SE 3, H335	

**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:** Not applicable
- After skin contact:** Generally the product does not irritate the skin.
- After eye contact:** Rinse opened eye for several minutes under running water.
- 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:** Not applicable

**5.2 Special hazards arising from the substance or mixture**

None

**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**

Product forms slippery surface when combined with water.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
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).

**6.4 Reference to other sections**

No dangerous substances are released.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

No special precautions are necessary if used correctly.

**Information about fire - and explosion protection:**

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 foodstuffs.
- Further information about storage conditions: None.
- 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Additional information: The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- Personal protective equipment:
- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
- Respiratory protection: Not required.
- Protection of hands: Not required.  
Preventive skin protection by use of skin-protecting agents is recommended.
- Material of gloves Not applicable
- Penetration time of glove material Not applicable
- For the permanent contact gloves made of the following materials are suitable: Not applicable
- Eye protection: Not required.
- 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: Odourless
- pH-value at 20 °C: 7
- Change in condition
- Melting point/freezing point: Undetermined.
- Initial boiling point and boiling range: 100 °C
- Flash point: Not applicable.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Vapour pressure at 20 °C: 23 hPa

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· <u>Density at 20 °C:</u>	1.55-1.62 g/cm <sup>3</sup>
· <u>Solubility in / Miscibility with water:</u>	Fully miscible.
· <u>Viscosity:</u> <u>Dynamic at 20 °C:</u> <u>Kinematic:</u>	1,100 mPas Not determined.
· <u>Solvent content:</u> <u>Water:</u>	47.5 %
<u>Solids content:</u>	52.3 %
· <b>9.2 Other information</b>	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:**2682-20-4 2-methyl-2H-isothiazol-3-one**

Oral	LD50	120 mg/kg (rat)
Dermal	LD50	242 mg/kg (rat)
Inhalative	LC50/4 h	0.11 mg/l (rat)

- Primary irritant effect:
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- 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.

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**SECTION 12: Ecological information****12.1 Toxicity**· Aquatic toxicity:**2682-20-4 2-methyl-2H-isothiazol-3-one**

EC50	34.6 mg/l (BES) (DIN 38412-3)
EC50/48h	0.93-1.9 mg/l (daphnia magna)
ErC50/72h	0.1 mg/l (Skeletonema costatum ( Kieselalge))
EC50/16h	2.3 mg/l (pseudomonas putida)
EC20/3h	2.8 mg/l (BES) (DIN 38412-3)
NOEC/21d	0.04 mg/l (daphnia magna)
EC50/72h	0.157 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	4.77-6 mg/l (rainbow trout)

**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 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.· Uncleaned packaging:· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.**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 Void· 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.

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· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <u>Transport/Additional information:</u>	Not dangerous according to the above specifications.
· <u>UN "Model Regulation":</u>	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.

· National regulations:· Waterhazard class:

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

· **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

H301 Toxic if swallowed.  
 H311 Toxic in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H330 Fatal if inhaled.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic 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)  
 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)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 Acute Tox. 3: Acute toxicity – Category 3  
 Acute Tox. 2: Acute toxicity – Category 2  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 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  
 REACH directive 1907/2006/EC

· Sources

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· \* Data compared to the previous version altered.

Adaptation in accordance with REACH directive 1907/2006/EC

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