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* 1 Identification of substance

· **Product details**


- Trade name: **Quartz Clean & Care**
- Article number: 11951
- Application of the substance / the preparation Protective impregnation
- Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de
- Information department: Laboratory

* 2 Composition/Data on components

· **Chemical characterization**

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

· Dangerous components:

CAS: 67-63-0	propan-2-ol	 Xi,  F; R 11-36-67	<12.5%
EINECS: 200-661-7			
EU Number: 603-117-00-0			

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

* 3 Hazards identification

- Hazard description: Not applicable.
- Information pertaining to particular dangers for man and environment: Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- Classification system: The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- NFPA ratings (scale 0 - 4)

0	2	0
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 - Health = 0
 - Fire = 2
 - Reactivity = 0
- HMIS-ratings (scale 0 - 4)

HEALTH	0	Health = 0
FIRE	2	Fire = 2
REACTIVITY	0	Reactivity = 0

* 4 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: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
- Information for doctor: Symptoms in alcohol intoxication:
a) acute intoxication: euphoria, inhibitions, disturbances in co-ordination; in severe cases insensibility, respiratory dysfunction.
b) chronic intoxication: CNS-, hepatic and cardiac dysfunctions with change of personality, alcohol induced hepatitis and reduced cardiac power.
Therapy in alcohol intoxication:
In acute intoxication observation of circulatory system, artificial breathing when indicated, gastrolavage, peritoneal or hemodialysis.

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- The following symptoms may occur:
 - Dizziness
 - Dizziness
 - Breathing difficulty
 - Nausea
- Danger
 - Danger of impaired breathing.

5 Fire fighting measures

- **Suitable extinguishing agents:** CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
 - 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)
 - In certain fire conditions, traces of other toxic gases cannot be excluded.
- **Protective equipment:**
 - Do not inhale explosion gases or combustion gases.
 - Mount respiratory protective device.
- **Additional information**
 - Cool endangered receptacles with water spray.

6 Accidental release measures

- **Person-related safety precautions:**
 - Ensure adequate ventilation
 - Keep away from ignition sources
 - Use respiratory protective device against the effects of fumes/dust/aerosol.
- **Measures for environmental protection:**
 - Dilute with plenty of water.
 - Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:**
 - 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.

7 Handling and storage

- **Handling:**
- **Information for safe handling:**
 - Store in cool, dry place in tightly closed receptacles.
 - Keep away from heat and direct sunlight.
 - Use only in well ventilated areas.
- **Information about protection against explosions and fires:**
 - Keep ignition sources away - Do not smoke.
 - Highly volatile, flammable constituents are released during processing.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
 - Store in a cool location.
 - Store only in the original receptacle.
- **Information about storage in one common storage facility:**
 - Do not store together with acids.
 - Store away from oxidizing agents.
 - Store away from foodstuffs.
- **Further information about storage conditions:**
 - Protect from frost.
 - Store in cool, dry conditions in well sealed receptacles.

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Protect from heat and direct sunlight.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

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

67-63-0 propan-2-ol

PEL	980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 492 mg/m ³ , 200 ppm
BEI	

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin. Do not inhale gases / fumes / aerosols. Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Not necessary if room is well-ventilated.

· **Breathing equipment:**

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Prior to contact with the watersoluble substance / product / preparation apply waterinsoluble skin-protecting agent (fat-containing film former or W/O-emulsions).

· **Material of gloves**

Chloroprene rubber, CR

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**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Not suitable are gloves made of the following materials:**

Leather gloves
Strong gloves

· **Eye protection:**

Goggles recommended during refilling.

· **Body protection:**

Light weight protective clothing

9 Physical and chemical properties

· **General Information**

Form:	Fluid
Color:	Light yellow
Odor:	Specific type

· **Change in condition**

Melting point/Melting range: Undetermined.

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<u>Boiling point/Boiling range:</u>	82°C (180°F)
· Flash point:	> 55°C (> 131°F)
· Ignition temperature:	425°C (797°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density at 20°C (68°F):	0.985 g/cm ³
· Solubility in / Miscibility with <u>Water:</u>	Fully miscible.
· Solvent content: <u>Organic solvents:</u>	11 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
No decomposition if used and stored according to specifications.
- **Dangerous reactions** Reacts with strong acids.
Reacts with oxidizing agents.
- **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information· **Acute toxicity:**· LD/LC50 values that are relevant for classification:**67-63-0 propan-2-ol**

Oral	LD50	4570 mg/kg (rat)
Dermal	LD50	13400 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

32210-23-4 4-tert-butylcyclohexyl acetate

Oral	LD50	5000 mg/kg (rat)
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106-22-9 Citronellol

Oral	LD50	3450 mg/kg (rat)
Dermal	LD50	2650 mg/kg (rbt)

- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritating effect.
- Sensitization: No sensitizing effects known.

· **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

12 Ecological information· **Ecotoxicological effects:**· Acquatic toxicity:**67-63-0 propan-2-ol**

EC50/15min	22000 mg/l (Photobac. phosphoreum)
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EC50/24h	9714 mg/l (daphnia magna)
EC50/48h	13299 mg/l (daphnia magna)
EC50/72h	> 1000 mg/l (green alga)
IC50/72h	> 1000 mg/l (Desmodesmus suspicatus)
LC50/96h	6650 mg/l (piscis)
	9640 mg/l (Pimephales promelas)

- **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 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- **Product:**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **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

- **DOT regulations:**
- **Hazard class:** -
- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -
- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No
- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulations

- **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
67-63-0 | propan-2-ol

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

- **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.

· **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.

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- Cancerogenity categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- IARC (International Agency for Research on Cancer)

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- NTP (National Toxicology Program)

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.

- **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.

- Safety phrases:

Keep out of the reach of children.
Avoid contact with skin and eyes.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point
If swallowed, seek medical advice immediately and show this container or label.

- **National regulations:**

- Water hazard class:

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

- VOC USA

108.4 g/l / 0.90 lb/gl

* 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

- *** Data compared to the previous version altered.**