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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Name of product</b>	Lithofin ASR
<b>Distributor</b>	GranQuartz Stone Care Systems 4963 S.Royal Atlanta Dr., Tucker, GA 30084 Phone 1-800-458-6222
<b>Advice</b>	Techn. Department Phone 1-800-458-6222
<b>Manufacturer</b>	LITHOFIN AG Heinrich-Otto-Straße 42, D-73240 Wendlingen Phone +49 (0)7024 94 03-0
<b>Advice</b>	Labor Phone +49 (0)7024 9403-0 Fax +49 (0)7024 9403-40
<b>Emergency advice</b>	Phone +49 (0)7024 9403-0 (8.00-16.00 h) Phone +49 (0)7024 94 03-0
<b>Recommended intended purpose(s)</b>	Cleaner

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## 2. HAZARDS IDENTIFICATION

<b>Classification</b>	C; R35
<b>R-phrases</b>	35 Causes severe burns.

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical characterization**  
Alkaline cleaner

### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
67-63-0	200-661-7	propan-2-ol	< 15	F R11; Xi R36; R67
111-76-2	203-905-0	2-butoxyethanol	< 20	Xn R20/21/22; Xi R36/38
1310-73-2	215-185-5	sodium-hydroxide	> 5	C R35
-		anionic surfactants	< 20	Xi R 38-41

### Additional advice

These hazards apply to the contained raw materials in concentrated form. they have nothing to do with the labeling requirements of the finished product. The labeling requirements for the finished product are listed as item 15.

#### 4. FIRST AID MEASURES

**General information**

Remove contaminated soaked clothing immediately.

**In case of inhalation**

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

**In case of skin contact**

In case of contact with skin wash off immediately with soap and water.

**In case of eye contact**

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

**In case of ingestion**

Do not induce vomiting.

If swallowed by mistake drink plenty of water and seek medical treatment.

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#### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Product does not burn, fire-extinguishing activities according to surrounding.

**Extinguishing media which must not be used for safety reasons**

Full water jet

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#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**

Ensure adequate ventilation.

Use personal protective clothing.

**Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**Methods for cleaning up**

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder).

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#### 7. HANDLING AND STORAGE

**Advice on safe handling**

Take the usual precautions when handling with chemicals.

**Advice on protection against fire and explosion**

No special measures necessary.

**Requirements for storage rooms and vessels**

Do not use glass containers.

**Further information on storage conditions**

Keep container dry, tightly closed and store at cool and aired place.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
111-76-2	2-butoxyethanol	8 hours	98	20	skin
		Short-term	246	50	

#### Hand protection

Gloves (alkali-resistant)

#### Eye protection

safety goggles

#### Skin protection

Alkali-resistant protective clothing

#### General protective measures

Avoid contact with eyes and skin

#### Hygiene measures

At work do not eat, drink and smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Form

liquid

#### Colour

yellowish

#### Odour

characteristic

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	> 12				
<b>starts to boil</b>	> 90 °C				
<b>Flash point</b>	> 65 °C				
<b>Density</b>	ca. 1,1 g/cm3				
<b>Solubility in water</b>					multimiscible

## 10. STABILITY AND REACTIVITY

#### Conditions to avoid

Reactions with light metals, with evolution of hydrogen.

#### Materials to avoid

Reactions with acids.

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## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>	not determined			
<b>LD 50 acute dermal</b>	not determined			
<b>LC 50 acute inhalation</b>	not determined			

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## 12. ECOLOGICAL INFORMATION

### Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	not determined			
<b>Biological degradability</b>	not determined			

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## 13. DISPOSAL CONSIDERATIONS

<b>Waste code No.</b> 06 02 04*	<b>Name of waste</b> sodium and potassium hydroxide
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Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.

### Recommendations for the product

Remove in accordance with local official regulations.

### Recommendations for packaging

Totally emptied packaging may be taken for recycling.

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## 14. TRANSPORT INFORMATION

### Land and inland navigation transport ADR/RID

UN 1719 Caustic alkali liquid, n.o.s. (Sodium hydroxide), 8, III

### Marine transport IMDG

UN 1719 Caustic alkali liquid, n.o.s., (Sodium hydroxide), 8, III

### Air transport ICAO/IATA-DGR

UN 1719 Caustic alkali liquid, n.o.s., (Sodium hydroxide; solution), 8, III

## ! 15. REGULATORY INFORMATION

### Remarks for classification

The product is classified and labelled in accordance with EC directives.

### Classification

**C** Corrosive

### R-phrases

35 Causes severe burns.

### S-phrases

1/2 Keep locked up and out of reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Hazardous ingredients for labeling

sodium-hydroxide

### National regulations

**Water hazard class** 2 VwVwS (17. 05. 1999)

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## 16. OTHER INFORMATION

### Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

### Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 11 Highly flammable.

R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R 35 Causes severe burns.

R 36 Irritating to eyes.

R 36/38 Irritating to eyes and skin.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.