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

Name of product
Lithofin ASR

Distributor
GranQuartz Stone Care Systems
4963 S. Royal Atlanta Dr., Tucker, GA 30084
Phone 1-800-458-6222
Advice
Techn. Department
Phone 1-800-458-6222

Manufacturer
LITHOFIN AG
Heinrich-Otto-Straße 42, D-73240 Wendlingen
Phone +49 (0) 7024 94 03-0
Advice
Labor Phone +49 (0) 7024 9403-0
Fax +49 (0) 7024 9403-40
Emergency advice
Phone +49 (0) 7024 9403-0 (8.00-16.00 h)
Phone +49 (0) 7024 94 03-0

Recommended intended purpose(s)
Cleaner

2. HAZARDS IDENTIFICATION

Classification
C; R35
R-phrases
35 Causes severe burns.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization
Alkaline cleaner

Hazardous ingredients

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

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.

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

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).

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)**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>111-76-2</td>
<td>2-butoxyethanol</td>
<td>8 hours</td>
<td>98</td>
<td>20</td>
<td>skin</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Short-term</td>
<td>246</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid</td>
<td>yellowish</td>
<td>characteristic</td>
</tr>
</tbody>
</table>

**Important health, safety and environmental information**

<table>
<thead>
<tr>
<th>Value</th>
<th>Temperature at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value in delivery state</td>
<td>&gt; 12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>starts to boil</td>
<td>&gt; 90 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 65 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>ca. 1.1 g/cm³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td>multimiscible</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

**Conditions to avoid**
Reactions with light metals, with evolution of hydrogen.

**Materials to avoid**
Reactions with acids.
11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD 50 acute oral</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD 50 acute dermal</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LC 50 acute inhalation</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)

<table>
<thead>
<tr>
<th>Elimination rate</th>
<th>Method of analysis</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physico-chemical degradability</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biological degradability</td>
<td>not determined</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Waste code No.</th>
<th>Name of waste</th>
</tr>
</thead>
<tbody>
<tr>
<td>06 02 04*</td>
<td>sodium and potassium hydroxide</td>
</tr>
</tbody>
</table>

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.

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)

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.