PRODUCT AND COMPANY IDENTIFICATION

Product Code: SIK4A
Product Name: Sika 4a
Product Description: Liquid rapid setting compound for waterproofing and leak plugging.
Manufacturer/Supplier: Sika Limited
              Watchmead
              Welwyn Garden City
              Hertfordshire.
              AL7 1BQ
              tel. 01707 394444
              Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTS

Preparation - Hazardous ingredients (Europe)

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
<th>Classification</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Potassium hydroxide</td>
<td>2.50%-10.00%</td>
<td>C</td>
<td>R22, R35</td>
</tr>
<tr>
<td>2) Sodium aluminate</td>
<td>2.50%-10.00%</td>
<td>Xi</td>
<td>R41</td>
</tr>
<tr>
<td>3) Potassium carbonate</td>
<td>10.00%-25.00%</td>
<td>Xi</td>
<td>R36/37/38</td>
</tr>
</tbody>
</table>

HAZARD IDENTIFICATION

Main Hazards: Causes burns. Irritating to respiratory system.

FIRST AID MEASURES

Eye Contact: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention urgently.

Skin Contact: Immediately wash skin thoroughly with soap and water. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists. Contaminated clothing should be washed or dry-cleaned before re-use.

Ingestion: Wash out mouth with water. Do not induce vomiting. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention.

Inhalation: Remove from exposure. Keep warm and at rest. Seek medical attention if you feel unwell.

FIRE FIGHTING MEASURES

Extinguishing Media: Not combustible. Use water spray or foam.

Protective Equipment for Fire-Fighting: Wear full protective clothing and self-contained breathing apparatus.
**ACCIDENTAL RELEASE MEASURES**

<table>
<thead>
<tr>
<th>Personal Precautions</th>
<th>Wear appropriate protective clothing.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Precautions and</td>
<td>Try to prevent the material from entering drains or water courses.</td>
</tr>
<tr>
<td>Clean-up Methods</td>
<td>Contain and absorb using earth, sand or other inert material.</td>
</tr>
<tr>
<td>Spillages</td>
<td>Transfer into suitable containers for recovery or disposal.</td>
</tr>
</tbody>
</table>

**HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>Handling</th>
<th>Avoid contact with eyes, skin and clothing. Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage</td>
<td>Storage area should be: cool, dry, away from incompatible materials. Store in the original container securely closed.</td>
</tr>
</tbody>
</table>

**EXPOSURE CONTROLS/PERSONAL PROTECTION**

<table>
<thead>
<tr>
<th>Occupational Exposure Limits - GB</th>
<th>UK EH40: OES 2mg/m3 15min STEL.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) Potassium hydroxide</td>
<td></td>
</tr>
</tbody>
</table>

**Engineering Control Measures**

- Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
- Respiratory protection not normally required.
- Wear suitable gloves e.g. Rubber gloves, PVC gloves.
  - The insides of gloves must be kept scrupulously clean.

**PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Clear. - Straw</td>
</tr>
<tr>
<td>Odor</td>
<td>Odourless.</td>
</tr>
<tr>
<td>pH</td>
<td>Strongly alkaline. Approx. 14</td>
</tr>
<tr>
<td>Flash Point °C</td>
<td>Not applicable.</td>
</tr>
<tr>
<td>Solubility - Water</td>
<td>Completely soluble.</td>
</tr>
<tr>
<td>Density (kg/m3)</td>
<td>Approx. 1.3 at 20 °C.</td>
</tr>
<tr>
<td>Viscosity ( at 20°C )</td>
<td>Mobile liquid at ambient temperatures.</td>
</tr>
</tbody>
</table>

**STABILITY AND REACTIVITY**

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable under normal conditions.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conditions to avoid</td>
<td>Protect from frost</td>
</tr>
<tr>
<td>Materials to avoid</td>
<td>Acids. Halogenated compounds.</td>
</tr>
</tbody>
</table>
TOXICOLOGICAL INFORMATION

Acute toxicity  Low order of acute toxicity.
Eye irritation  This material is corrosive to the eye.
Skin irritation  This material is corrosive to the skin.

ECOLOGICAL INFORMATION

Mobility  The product will dissolve rapidly in water.
 Persistence/degradability  The product is expected to be readily biodegradable.
 Ecotoxicity  The product may be harmful to aquatic organisms.

DISPOSAL

Product Disposal  Dispose of as Special Waste.
Container Disposal  Arrange for disposal via a licensed waste contractor.
Dispose of containers with care. Empty containers may contain hazardous residues.
Empty packaging should be removed by a licensed waste contractor.

TRANSPORT INFORMATION

UN : UN number  1719
UN : Proper shipping name  Caustic alkali liquid, n.o.s.
UN : Class  8
UN : Packing Group  3
ADR/RID  Substance Identification Number  1719
ADR/RID  Proper shipping name  Caustic Alkali Liquid, n.o.s. contains Potassium Hydroxide
ADR/RID  Class  8
ADR/RID  Item Number  42° c
ADR/RID  Hazard Identification Number  80
IMDG : Proper shipping name  Caustic alkali liquid, N.O.S. contains Potassium Hydroxide
IMDG : Packing Group  3
IMDG : Class  8
IMDG : Ems Number  8-06
IMDG : MFAG Number  705
IATA : Proper shipping name  Caustic alkali liquid, N.O.S. contains Potassium Hydroxide
IATA : Packing Group  3
IATA : Class  8
SAFETY DATA SHEET
Sika 4a
Date of issue - 22/03/2001.

REGULATORY INFORMATION

Label Requirements
Corrosive

Risk Phrases
Causes burns.
Irritating to respiratory system.

Safety Phrases
Keep locked up and out of reach of children.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face protection.
After contact with skin, wash immediately with plenty of soap and water.
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

OTHER INFORMATION

First Issue Date
09.06.1995

Revisions Highlighted
Main Hazards
S Phrases

Uses and Restrictions
Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer’s responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.

UK Legislation
Health and Safety at Work etc Act, 1974, and relevant Statutory Provisions.
SI 1999/437: The Control of Substances Hazardous to Health Regulations
SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.

UK Guidance Publications
Approved Code of Practice - Management of Health and Safety at Work, HSE.
General Approved Code of Practice to COSHH Regulations, HSE.
EH40, Occupational Exposure Limits, HSE. Revised Annually.

Footnote
The information contained in this SDS corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.