SAFETY DATA SHEET
Sikadur 53LV Part A
Date of issue - 22/03/2001.
SKD53LA

PRODUCT AND COMPANY IDENTIFICATION

Product Code                     SKD53LA
Product Name                    Sikadur 53LV Part A
Product Description            2-component, solvent free, low viscosity epoxy resin for underwater crack injection applications.
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) Nonyl Phenol</td>
<td>1.00%-2.50%</td>
<td>C, N</td>
<td>R22, R34, R50/53</td>
</tr>
<tr>
<td>2) Epoxy resin (No.Av. mol.wt. &lt; 700)</td>
<td>25.00%-50.00%</td>
<td>Xi, N</td>
<td>R36/38, R43, R51/53</td>
</tr>
<tr>
<td>3) Solvent Naptha (petroleum) heavy aromatic.</td>
<td>1.00%-2.50%</td>
<td>Xn, N</td>
<td>R65, R51/53</td>
</tr>
<tr>
<td>4) Aliphatic glycidyl ether</td>
<td>1.00%-2.50%</td>
<td>Xi, N</td>
<td>R36/38, R43, R51/53</td>
</tr>
</tbody>
</table>

HAZARD IDENTIFICATION

Main Hazards
Irritating to eyes and skin.
May cause sensitisation by skin contact.
Misuse of this product due to lack of personal protection or care may result in dermatitis

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
Wipe off as much as possible with a clean dry cloth. Wash skin thoroughly with soap and water.
Solvents should not be used to clean skin because they may increase the penetration of the material.

Ingestion
Wash out mouth with water. Obtain medical attention.

Inhalation
Remove from exposure. In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.

FIRE FIGHTING MEASURES

Extinguishing Media
Not readily combustible.

Extinguishing Media - Not suitable
Use foam, dry chemical or carbon dioxide.

Special Hazards of Product
Do not use water jet.

Protective Equipment for Fire-Fighting
Combustion will produce smoke, carbon dioxide and carbon monoxide.
Wear full protective clothing and self-contained breathing apparatus.
ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Wear appropriate protective clothing.

**Environmental Precautions and Clean-up Methods**
Try to prevent the material from entering drains or water courses.

**Spillages**
Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE

**Handling**
Use in well ventilated area.
Avoid contact with eyes, skin and clothing.

**Storage**
Storage area should be: cool, dry.
Storage temperature should be controlled to between 5 and 25 °C.
Store in the original container securely closed. Keep away from foodstuffs.

EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits - GB**
1) Solvent Naptha (petroleum) heavy aromatic. None assigned.
2) Aliphatic glycidyl ether None assigned.

**Engineering Control Measures**
Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

**Respiratory Protection**
Respiratory protection not normally required.

**Hand Protection**
Wear suitable impervious gloves.
The insides of gloves must be kept scrupulously clean.

**Eye Protection**
Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**
Viscous liquid.

**Color**
Pink.

**Odor**
Faint. Characteristic.

**pH**
Not applicable.

**Flash Point °C**
Exceeds 100.

**Explosion Limits ( % )**
Not determined.

**Solubility - Water**
Insoluble.

**Vapor Pressure ( kPa )**
Negligible vapour pressure at ambient conditions.

**Density (kg/m3)**
Approx. 2.2 at 20 °C.

**Viscosity ( at 20°C )**
Viscous liquid at ambient temperatures.

**Decomposition temperature °C**
Over 200

STABILITY AND REACTIVITY

**Stability**
Stable under normal conditions.

**Materials to avoid**

**Hazardous Decomposition Products**
Heating may produce: oxides of carbon. acrid smoke and irritating fumes.
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TOXICOLOGICAL INFORMATION

**Acute toxicity**
Low order of acute toxicity.

**Eye irritation**
Irritating to the eyes.

**Skin irritation**
Frequent or prolonged skin contact may cause some local short term skin irritation.

**Sensitization - Skin**
The low molecular weight epoxy resin is a potential skin sensitisier.

ECOLOGICAL INFORMATION

**Mobility**
The product is insoluble in water.

**Persistence/degradability**
The product is expected to be not 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**
3082

**UN : Proper shipping name**
Environmentally hazardous substances, liquid, n.o.s.

**UN : Class**
9

**UN : Packing Group**
3

**ADR/RID Substance Identification Number**
3082

**ADR/RID Proper shipping name**
Environmentally hazardous substance, liquid, n.o.s.
contains Epoxy Resin

**ADR/RID Class**
9

**ADR/RID Item Number**
11 (c)

**ADR/RID Hazard Identification Number**
90

**IMDG : Proper shipping name**
Environmentally hazardous substance, liquid, N.O.S.
contains Epoxy Resin

**IMDG : Packing Group**
3

**IMDG : Class**
9

**IATA : Proper shipping name**
Not Classified for Air Transport.

REGULATORY INFORMATION

**Label Requirements**
Irritant

**Risk Phrases**
Irritating to eyes and skin.
May cause sensitisation by skin contact.
**Safety Phrases**

Keep out of reach of children.
Avoid contact with skin.
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed seek medical advice immediately and show this container or label.
Use only in well ventilated areas.

Contains epoxy constituents. See information supplied by the manufacturer.

**OTHER INFORMATION**

**First Issue Date**
04.05.1995

**Revisions Highlighted**
Composition/Information on the Components
Toxicological Information
Disposal
Transport Information
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**
General Approved Code of Practice to COSHH Regulations, HSE.
Approved Code of Practice - Management of Health and Safety at Work, HSE.

**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.
PRODUCT AND COMPANY IDENTIFICATION

Product Code: SKD53LB
Product Name: Sikadur 53LV Part B
Product Description: 2-component, solvent free, low viscosity epoxy resin for underwater crack injection applications.

Manufacturer/Supplier: Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire.
AL7 1BQ
tel. 01707 394444
Fax. 01707 329129

COMPOSITION/INFORMATION ON THE COMPONENTS

<table>
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<tr>
<th>Component</th>
<th>Concentration</th>
<th>Classification</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) 2,4,6-Tri(dimethylaminomethyl) phenol</td>
<td>2.50%-10.00%</td>
<td>Xn</td>
<td>R22, R36/38</td>
</tr>
<tr>
<td>2) Benzyl Alcohol</td>
<td>25.00%-50.00%</td>
<td>Xn</td>
<td>R20/22</td>
</tr>
<tr>
<td>3) Isophoronediamine</td>
<td>10.00%-25.00%</td>
<td>C</td>
<td>R21/22, R34, R43, R52/53</td>
</tr>
<tr>
<td>4) Triethylenetetramine</td>
<td>10.00%-25.00%</td>
<td>C</td>
<td>R21, R34, R43, R52/53</td>
</tr>
<tr>
<td>5) Solvent Naptha (petroleum) heavy aromatic.</td>
<td>10.00%-25.00%</td>
<td>Xn, N</td>
<td>R65, R51/53</td>
</tr>
</tbody>
</table>

HAZARD IDENTIFICATION

Main Hazards
Causes burns.
May cause sensitisation by skin contact.
Harmful by inhalation, in contact with skin and if swallowed.
Misuse of this product due to lack of personal protection or care may result in dermatitis

FIRST AID MEASURES

Eye Contact
Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open.
Eyelids should be held away from the eyeball to ensure thorough rinsing.
Obtain medical attention urgently.

Skin Contact
Wipe off as much as possible with a clean dry cloth.
If material proves difficult to remove, use suitable skin cleanser (not solvent).
Solvents should not be used to clean skin because they may increase the penetration of the material.
Contaminated clothing should be washed or dry-cleaned before re-use.

Ingestion
Do not induce vomiting.
Have victim drink 1-3 glasses of water to dilute stomach contents.
Obtain medical attention.

Inhalation
Remove from exposure.
In cases of possible respiratory irritation or if feeling unwell in cases of prolonged exposure, obtain medical attention.
FIRE FIGHTING MEASURES

**Extinguishing Media**
Not readily combustible. Use foam, dry chemical or carbon dioxide.

**Extinguishing Media - Not suitable**
Do not use water jet.

**Special Hazards of Product**
Thermal decomposition or burning may release oxides of carbon, nitrogen and other toxic gases and vapours.

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

ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
Wear appropriate protective clothing.

**Environmental Precautions and Clean-up Methods**
Try to prevent the material from entering drains or water courses.

**Spillages**
Contain and absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal.

HANDLING AND STORAGE

**Handling**
Mix in a well ventilated area.
Avoid contact with eyes, skin and clothing.

**Storage**
Storage area should be: cool, dry.
Storage temperature should be controlled to between 5 and 25 °C.
Store in the original container securely closed. Keep away from foodstuffs.

EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits - GB**
1) Solvent Naptha (petroleum) heavy aromatic. None assigned.

**Engineering Control Measures**
Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

**Respiratory Protection**
Respiratory protection not normally required.

**Hand Protection**
Wear suitable impervious gloves.
The insides of gloves must be kept scrupulously clean.

**Eye Protection**
Chemical goggles.

PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**
Liquid.

**Color**
Clear, - Brown.

**Odor**
Ammoniacal.

**pH**
Approx. 12 in water.

**Flash Point °C**
Exceeds 100.

**Explosion Limits ( % )**
Not determined.

**Solubility - Water**
Partially soluble.

**Vapor Pressure ( kPa )**
Negligible vapour pressure at ambient conditions.

**Density (kg/m3)**
Approx. 1.0 at 20 °C.

**Viscosity ( at 20°C )**
Mobile liquid at ambient temperatures.
STABILITY AND REACTIVITY

**Stability**
Stable under normal conditions.

**Materials to avoid**

**Hazardous Decomposition Products**
Heating may produce: ammonia. oxides of carbon. oxides of nitrogen. acrid smoke and irritating fumes.

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 is sparingly soluble in water.

**Persistence/degradability**
The product is expected to be not readily biodegradable.

**Ecotoxicity**
The product may be harmful to aquatic organisms.

DISPOSAL

**Product Disposal**
Dispose of as Special Waste.
Arrange for disposal via a licensed waste contractor.

**Container Disposal**
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**
1760

**UN : Proper shipping name**
Corrosive liquid, n.o.s.

**UN : Class**
8

**UN : Packing Group**
3

**ADR/RID Substance Identification Number**
1760

**ADR/RID Proper shipping name**
Corrosive liquid, n.o.s. contains Triethylenetetramine

**ADR/RID Class**
8

**ADR/RID Item Number**
66(c)

**ADR/RID Hazard Identification Number**
80

**IMDG : Proper shipping name**
Corrosive liquid, N.O.S. contains Triethylenetetramine

**IMDG : Packing Group**
3

**IMDG : Class**
8

**IMDG : Ems Number**
8-15

**IMDG : MFAG Number**
760

**IATA : Proper shipping name**
Corrosive liquid, N.O.S. contains Triethylenetetramine

**IATA : Packing Group**
3

**IATA : Class**
8
SAFETY DATA SHEET
Sikadur 53LV Part B
Date of issue - 22/03/2001.
SKD53LB

REGULATORY INFORMATION

Label Requirements
Corrosive

Risk Phrases
Causes burns.
May cause sensitisation by skin contact.
Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases
Keep locked up and out of reach of children.
Avoid contact with skin.
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.
If swallowed seek medical advice immediately and show this container or label.
Use only in well ventilated areas.

OTHER INFORMATION

First Issue Date
04.05.1995

Revisions Highlighted
Composition/Information on the Components
Toxicological Information
Ecological Information
Disposal
Transport Information
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SI 1993/1746: Chemicals (Hazard Information and Packaging) Regulations, 1993
SI 1999/437: The Control of Substances Hazardous to Health Regulations
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