1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SKIN20A
Product Name: Sika Injection-20 Part A
Product Description: 2 component PU based resin system for crack sealing
Manufacturer/Supplier: Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire.
AL7 1BQ
tel. 01707 394444
Fax. 01707 329129

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Preparation - Hazardous ingredients (Europe)

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS/EINECS</th>
<th>Concentration</th>
<th>Classification</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diphenylmethandiisocyanate</td>
<td>101-68-8</td>
<td>50.00% - 100.00%</td>
<td>Xn</td>
<td>R20, R36/37/38, R42/43</td>
</tr>
</tbody>
</table>

3. HAZARD IDENTIFICATION

Main Hazards
Harmful by inhalation.
Irritating to eyes, respiratory system and skin.
May cause sensitisation by inhalation and skin contact.

4. 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
Do not induce vomiting.
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.

5. FIRE FIGHTING MEASURES

Extinguishing Media
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.
6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
- Wear appropriate protective clothing.
- Ventilate area to disperse any residual vapours.

**Environmental Precautions and Clean-up**
- Try to prevent the material from entering drains or water courses.
- Contain and absorb using earth, sand or other inert material.
- Transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

**Handling**
- Use in well ventilated area. Avoid contact with water or moist air.
- Exposure by inhalation or skin contact should be minimised by good Industrial Hygiene practices.
- 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits - GB**
- Diphenylmethandiisocyanate: UK EH40: WEL 0.07 mg/m3 15min STEL.
- UK EH40: WEL 0.02 mg/m3 8h TWA.

**Engineering Control Measures**
- Exposure to this material may be controlled in a number of ways.
- The measures appropriate for a particular worksite depend on how the material is used and on the potential for exposure.
- Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

**Respiratory Protection**
- If limits are exceeded use an approved respirator suitable for the purpose.

**Hand Protection**
- Wear suitable impervious gloves. (butyl / nitrile type)

**Eye Protection**
- Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**
- Liquid.

**Color**
- Brown.

**Odor**
- Characteristic.

**Flash Point °C**
- > 200

**Solubility - Water**
- Insoluble.
- (reacts with water to form solid)

**Density (kg/m3)**
- Approx. 1140

**Viscosity (at 20°C)**
- 200 - 300 at 20 °C. (measured as mPa.s)

10. STABILITY AND REACTIVITY

**Stability**
- Stable under normal conditions.
- Polymerisation will continue if exposed to: water.

**Conditions to avoid**
- Extremes of temperature. Exposure to water or moisture.

**Hazardous Decomposition Products**
- Heating may produce: oxides of carbon, oxides of nitrogen. isocyanates. toxic fumes. acid smoke and irritating fumes.
11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
The principal hazard associated with isocyanates is allergic respiratory sensitisation. This may occur after either short periods of massive exposure or chronic exposure: effects may be considerably delayed. Persons with asthmatic or sensitive respiratory conditions should refrain from handling the product.

**Eye irritation**
Liquid and vapour can cause irritation on contact and at high concentrations.

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

12. ECOLOGICAL INFORMATION

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

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

**Ecotoxicity**
The product is expected to be non-hazardous to aquatic species.

13. DISPOSAL

**Product Disposal**
Hazardous 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.

14. TRANSPORT INFORMATION

**ADR/RID : Proper shipping name**
Not Regulated under ADR/RID

**IMDG : Proper shipping name**
Not Regulated under IMDG

**IATA : Proper shipping name**
Not Regulated under ICAO

15. REGULATORY INFORMATION

**Label Requirements**
Harmful

**Risk Phrases**
Harmful by inhalation. May cause sensitisation by inhalation and skin contact. Irritating to eyes, respiratory system and skin.

**Safety Phrases**
Do not breathe gas/fumes/vapor/spray. Avoid contact with skin. Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Contains isocyanates. See information supplied by the manufacturer.

**Contains**
Diphenylmethanediisocyanate, isomers and homologues.
## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th><strong>First Issue Date</strong></th>
<th>10.06.2002</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Revisions Highlighted</strong></td>
<td>Exposure Controls and Personal Protection</td>
</tr>
<tr>
<td><strong>Uses and Restrictions</strong></td>
<td>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.</td>
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**UK Legislation**

- SI 2002/1689: Chemicals (Hazard Information and Packaging) Regulations.
- SI 2002/2677: The Control of Substances Hazardous to Health Regulations.
- SI No 2839 1991 Environmental Protection (Duty of Care) Regulations.
- SI 2005/ 894 Hazardous waste regulations 2005

**UK Guidance Publications**

- General Approved Code of Practice to COSHH Regulations, HSE.
- EH40, Occupational Exposure Limits, HSE. Revised Annually.
- HS(G) 53, Respiratory Protective Equipment - a Practical Guide for Users, 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.
# SAFETY DATA SHEET

**Sika Injection-20 Part B**

**Date of issue - 27/01/2006.**

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
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<td>Sika Injection-20 Part B</td>
</tr>
<tr>
<td>Product Description</td>
<td>2 component PU based resin system for crack sealing</td>
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<tr>
<td>Manufacturer/Supplier</td>
<td>Sika Limited Watchmead Welwyn Garden City Hertfordshire. AL7 1BQ tel. 01707 394444 Fax. 01707 329129</td>
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## 2. COMPOSITION/INFORMATION ON THE COMPONENTS

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<th>Concentration</th>
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<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preparation - Hazardous ingredients (Europe)</td>
<td>2-dimethylaminoethanol</td>
<td>108-01-0</td>
<td>10.00% - 25.00%</td>
<td>C</td>
<td>R10, R20/21/22, R34</td>
</tr>
<tr>
<td>Preparation - Hazardous ingredients (Europe)</td>
<td>Dimethylbis[(1-oxoneodecyl)oxy]stannane</td>
<td>68928-76-7</td>
<td>1.00% - 2.50%</td>
<td>Xn</td>
<td>R22, R48/22, R52/53</td>
</tr>
</tbody>
</table>

## 3. HAZARD IDENTIFICATION

**Main Hazards**

- Causes burns.
- Irritating to respiratory system.

## 4. 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**

- Wash skin thoroughly with soap and water.
- Obtain medical attention if blistering occurs or redness persists.
- Contaminated clothing should be washed or dry-cleaned before re-use.

**Ingestion**

- Do not induce vomiting.
- Obtain medical attention.

**Inhalation**

- Remove from exposure. Obtain medical attention.

## 5. FIRE FIGHTING MEASURES

**Extinguishing Media**

- Use foam, dry chemical or carbon dioxide.

**Extinguishing Media - Not suitable**

- Dry sand may be used on small fires.

**Special Hazards of Product**

- Do not use water jet.

**Protective Equipment for Fire-Fighting**

- Combustion will generate oxides of carbon and nitrogen
- Wear full protective clothing and self-contained breathing apparatus.
6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**

Wear appropriate protective clothing. Eliminate all sources of ignition.

**Environmental Precautions and Clean-up Method**

Ventilate area to dispel any residual vapours.

**Spillages**

Prevent the material from entering drains or water courses.

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

7. HANDLING AND STORAGE

**Handling**

Exposure by inhalation or skin contact should be minimised by good industrial hygiene practices.

Use in well ventilated area. Avoid inhaling vapour.

Avoid contact with eyes, skin and clothing.

**Storage**

Storage area should be: cool, dry, well ventilated, out of direct sunlight.

Store away from sources of heat or ignition.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits - GB**

2-dimethylaminoethanol

UK EH40: WEL 2ppm (7.4mg/m3) 8 hr TWA

UK EH40: WEL 6ppm (22mg/m3) 15 min

**Engineering Control Measures**

Use of the basic principles of industrial hygiene will enable this material to be used safely.

**Respiratory Protection**

Adequate ventilation should be provided to maintain concentrations in the workplace below exposure limits.

Respiratory protection if there is a risk of exposure to high vapour concentrations.

**Hand Protection**

Wear suitable impervious gloves. (butyl / nitrile type)

**Eye Protection**

Chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State**

Liquid.

**Color**

Yellow.

**Odor**

Amine like.

**Flash Point °C**

Approx. 58

**Solubility - Water**

Partially soluble.

**Density (kg/m³)**

Approx. 960 at 20 °C.

**Viscosity (at 20°C)**

Mobile liquid at ambient temperatures.

10. STABILITY AND REACTIVITY

**Stability**

Stable under normal conditions.

**Conditions to avoid**

Sources of ignition.

**Hazardous Decomposition Products**

Combustion will generate: oxides of carbon, oxides of nitrogen, acrid smoke and irritating fumes.
11. TOXICOLOGICAL INFORMATION

**Acute toxicity**  
Low order of acute toxicity

**Eye irritation**  
Liquid and vapour can cause irritation on contact and at high concentrations.  
This material is corrosive to the eye.

**Skin irritation**  
The material is corrosive to the skin.

12. 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.

13. DISPOSAL

**Product Disposal**  
Hazardous 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.

14. TRANSPORT INFORMATION

| UN | UN number     | 2924 |
| UN | Proper shipping name | Flammable liquid, corrosive, n.o.s. |
| UN | Class | 3 |
| UN | Packing Group | 3 |
| ADR/RID : Number | 2924 |
| ADR/RID : Proper shipping name | Flammable liquid, corrosive, n.o.s. contains 2-dimethylaminoethanol |
| ADR/RID : Class | |
| ADR/RID : Item Number | 33(c) Class FC |
| IMDG : Proper shipping name | Flammable liquid, corrosive, n.o.s. contains 2-dimethylaminoethanol |
| IMDG : Packing Group | 3 |
| IMDG : Class | 3 |
| IMDG : Ems Number | F-E, S-C |
| IATA : Packing Group | 3 |
| IATA : Class | 3 |

15. REGULATORY INFORMATION

**Label Requirements**  
Corrosive

**Risk Phrases**  
Causes burns.  
Irritating to respiratory system.
SAFETY DATA SHEET
Sika Injection-20 Part B

Date of Issue - 27/01/2006.

| Safety Phrases                           | 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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |
| Contains                                 | 2-dimethylaminoethanol |

16. OTHER INFORMATION

| First Issue Date | 10.06.2002 |
| Revisions Highlighted | Disposal. Exposure Controls and Personal Protection |
| 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. |

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