1. Product And Company Identification

Supplier
Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071
Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Manufacturer
Sika Corporation
201 Polito Ave
Lyndhurst, NJ 07071
Company Contact: EHS Department
Telephone Number: 201-933-8800
FAX Number: 201-933-9379
Web Site: www.sikausa.com

Supplier Emergency Contacts & Phone Number
CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Manufacturer Emergency Contacts & Phone Number
CHEMTREC: 800-424-9300
INTERNATIONAL: 703-527-3887

Issue Date: 07/21/2006
Product Name: Sikaflex® 2C NS - TG Component
CAS Number: Not Established
Chemical Family: Cycloaliphatic Polyisocyanate
MSDS Number: 3951
Product Code: 043864T

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISOPHORONE DIISOCYANATE</td>
<td>4098-71-9</td>
<td>&lt;= 0.5</td>
</tr>
<tr>
<td>ISOPHORONE DIISOCYANATE HOMOPOLYMER</td>
<td>53880-05-0</td>
<td></td>
</tr>
<tr>
<td>PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE</td>
<td>108-65-6</td>
<td></td>
</tr>
<tr>
<td>XYLENE (MIXED ISOMERS)</td>
<td>1330-20-7</td>
<td>10 - 20</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Eye Hazards
LIQUID, AEROSOLS OR VAPORS OF THIS PRODUCT (ISOCYANATE AND SOLVENTS) ARE IRRITATING AND CAN CAUSE TEARING, REDDENING AND SWELLING ACCOMPANIED BY A STINGING SENSATION AND MAYBE A FEELING LIKE THAT OF FINE DUST IN THE EYES. MAY CAUSE CONJUNCTIVITIS

Skin Hazards
PROLONGED CONTACT WITH THE ISOCYANATE CAN CAUSE REDDENING, SWELLING, RASH, SCALING, OR BLISTERING. IN THOSE WHO HAVE DEVELOPED A SKIN SENSITIZATION, THESE SYMPTOMS CAN
3. Hazards Identification - Continued

**Skin Hazards - Continued**
DEVELOP AS A RESULT OF CONTACT WITH VERY SMALL AMOUNTS OF LIQUID MATERIAL OR EVEN AS A RESULT OF VAPOR EXPOSURE. CHRONIC EXPOSURE TO SOLVENTS MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

**Ingestion Hazards**
CAN RESULT IN IRRITATION AND POSSIBLE CORROSIVE ACTION IN THE MOUTH, STOMACH TISSUE AND DIGESTIVE TRACT. VOMITING MAY CAUSE ASPIRATION OF THE SOLVENT RESULTING IN CHEMICAL PNEUMONITIS

**Inhalation Hazards**
IPDI VAPORS OR MIST AT CONCENTRATIONS ABOVE THE TLV CAN IRRITATE THE MUCOUS MEMBRANES IN THE RESPIRATORY TRACT CAUSING RUNNY NOSE, SORE THROAT, COUGHING CHEST DISCOMFORT, SHORTNESS OF BREATH AND REDUCES LUNG FUNCTION. PERSONS WITH PREEXISTING, NONSPECIFIC BRONCHIAL HYPERREACTIVITY CAN RESPOND TO CONCENTRATIONS BELOW THE TLV WITH SIMILAR SYMPTOMS AS WELL AS ASTHMA ATTACK.

SOLVENT VAPORS CAN CAUSE HEADACHE, NAUSEA, NARCOSIS, FATIGUE AND LOSS OF APETITE.
REPEATED EXPOSURE OR SINGLE LARGE EXPOSURE CAN CAUSE ISOCYANATE SENSITIZATION (CHEMICAL ASTHMA) WHICH WILL CAUSE THEM TO REACT TO A LATER EXPOSURE TO ISOCYANATE AT LEVELS WELL BELOW THE TLV.

CHRONIC SOLVENT EXPOSURE CAN CAUSE SYMPTOMS INCLUDING LOSS OF MEMORY, LOSS OF COORDINATION, AND POSSIBLE BRAIN AND NERVOUS SYSTEM DAMAGE

**Conditions Aggravated By Exposure**
ASTHMA AND ANY OTHER RESPIRATORY DISORDERS, SKIN ALLERGIES, ECZEMA.

4. First Aid Measures

**Eye**
RINSE EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MINUTES. CONSULT PHYSICIAN.

**Skin**
WASH SKIN THOROUGHLY WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. IF SYMPTOMS, PERSIST CONSULT PHYSICIAN.

**Ingestion**
DILUTE WITH WATER OR MILK. DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.

**Inhalation**
REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, INSTITUTE ARTIFICIAL RESPIRATION. CONSULT WITH PHYSICIAN.

5. Fire Fighting Measures

**Flash Point:** 104 °F 40 °C
**Flash Point Method:** TAGLIABUE CLOSED CUP
**Autoignition Point:** 599 °F 315 °C
**Lower Explosive Limit:** 0.8%
**Upper Explosive Limit:** 13.1%

**Fire And Explosion Hazards**
DURING A FIRE, IRRITATING AND/OR TOXIC GASES (IPDI) AND AEROSOLS FROM THE DECOMPOSITION/COMBUSTION PRODUCTS MAY BE PRESENT.
5. Fire Fighting Measures - Continued

**Extinguishing Media**
In case of fire, use water spray (fog) foam, dry chemical, or CO2.

**Fire Fighting Instructions**
Firefighters should wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

EVACUATE ALL NONESSENTIAL PERSONNEL. REMOVE SOURCES OF IGNITION. WEAR PROPER PROTECTIVE EQUIPMENT. CONTAIN SPILL AND COLLECT WITH ABSORBENT MATERIAL AND TRANSFER INTO SUITABLE CONTAINERS. AVOID CONTACT. VENTILATE ENCLOSED AREA.

7. Handling And Storage

**Handling And Storage Precautions**
STORE AT 32°F MIN. - 122°F MAX. IDEAL STORAGE TEMPERATURE 50-80°F. IF CLOSED CONTAINER IS EXPOSED TO HEAT, PRESSURE CAN BUILD UP. IF MOISTURE ENTERS CONTAINER, PRESSURE MAY BUILD UP DUE TO REACTION. STORE IN COOL, DRY AREA IN TIGHTLY CLOSED CONTAINERS, AWAY FROM SPARKS AND OPEN FLAMES.

**Work/Hygienic Practices**
Wash thoroughly with soap and water after handling.

8. Exposure Controls/Personal Protection

**Engineering Controls**
Use with adequate general and local exhaust ventilation.

**Eye/Face Protection**
Safety glasses with side shields or goggles.

**Skin Protection**
WEAR CHEMICAL RESISTANT GLOVES. WEAR LONG SLEEVE SHIRT AND LONG PANTS. AVOID SKIN CONTACT.

**Respiratory Protection**
In areas where the P.E.L.s are exceeded, use a properly fitted NIOSH-approved respirator.

**Other/General Protection**
WASH THOROUGHLY AFTER HANDLING.

**Ingredient(s) - Exposure Limits**
- ISOPHORONE DIISOCYANATE
  - ACGIH TLV-TWA 0.005 ppm (Skin)
- XYLENE (MIXED ISOMERS)
  - OSHA PEL - TWA: 100 PPM
  - OSHA PEL - STEL: 150 PPM
  - ACGIH TLV - TWA: 100 PPM
  - ACGIH TLV - STEL: 150 PPM
- CONTAINS 15% ETHYL BENZENE 100-41-4
- ETHYL BENZENE OSHA PEL/STEL 100 PPM / 125 PPM

9. Physical And Chemical Properties

**Appearance**
TRANSPARENT PALE YELLOW LIQUID
# Sikaflex® 2C NS - TG Component

## 9. Physical And Chemical Properties - Continued

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>SOLVENT LIKE</td>
</tr>
<tr>
<td>Chemical Type</td>
<td>Mixture</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/AV °F</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>284 °F, 140 °C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.08</td>
</tr>
<tr>
<td>Percent Volatiles</td>
<td>35%</td>
</tr>
<tr>
<td>Packing Density</td>
<td>Approximately 9.0 pounds / gallon</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>3.7 mmHg at 68F</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water</td>
</tr>
<tr>
<td>VOC Content</td>
<td>Part A = 49 g/L</td>
</tr>
<tr>
<td></td>
<td>Part B = 93 g/L</td>
</tr>
<tr>
<td></td>
<td>Part TG = 346 g/L</td>
</tr>
<tr>
<td></td>
<td>A + B + TG = 69 g/L</td>
</tr>
</tbody>
</table>

## 10. Stability And Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability</td>
<td>STABLE</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>MAY OCCUR WITH CONTACT WITH WATER</td>
</tr>
</tbody>
</table>

### Conditions To Avoid (Stability)
- OPEN FLAME, HEAT

### Incompatible Materials
- WATER, ALCOHOLS AND AMINES

### Hazardous Decomposition Products
- CO, CO2, OXIDES OF NITROGEN

## 11. Toxicological Information

No Data Available...

## 12. Ecological Information

No Data Available...

## 13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations.

## 14. Transport Information

### Proper Shipping Name
- Ground Transport - Not Regulated by the USDOT (per 49 CFR 173.150(f))
- Air, Boat Transport - Resin Solution (Contains Isophorone Diisocyanate Homopolymer, Xylene, Ethyl Benzene), 3, UN1866, III

## 15. Regulatory Information

### U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
### 15. Regulatory Information - Continued

**SARA Hazard Classes**
- Acute Health Hazard
- Chronic Health Hazard
- Fire Hazard

**SARA Title III - Section 313 Supplier Notification**
This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

- ISOPHORONE DIISOCYANATE (4098-71-9) <=0.5%
- XYLENE (MIXED ISOMERS) (1330-20-7) 10 - 20%

This information must be included on all MSDSs that are copied and distributed for this material.

**Ingredient(s) - U.S. Regulatory Information**
- ISOPHORONE DIISOCYANATE
  - SARA Title III - EPA Part 355 Extremely Hazardous Substance
  - SARA Title III - Section 313 Form "R"/TRI Reportable Chemical
  - SARA - Acute Health Hazard
  - SARA - Chronic Health Hazard
- XYLENE (MIXED ISOMERS)
  - SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

**Ingredient(s) - State Regulations**
- ISOPHORONE DIISOCYANATE
  - New Jersey - Workplace Hazard
  - New Jersey - Environmental Hazard
  - Pennsylvania - Workplace Hazard
  - California - CalARP Table 3 Regulated Substance
  - Massachusetts - Hazardous Substance
  - New York City - Hazardous Substance
- ISOPHORONE DIISOCYANATE HOMOPOLYMER
  - New Jersey - Workplace Hazard
  - New Jersey - Environmental Hazard
  - Pennsylvania - Workplace Hazard
  - California - CalARP Table 3 Regulated Substance
  - Massachusetts - Hazardous Substance
  - New York City - Hazardous Substance

### 16. Other Information

**HMIS Rating**
- Health: *2
- Fire: 2
- Reactivity: 1
- PPE: H

**Revision/Preparer Information**
- MSDS Preparer: EHS Department
- MSDS Preparer Phone Number: 201 933 8800
- This MSDS Supercedes A Previous MSDS Dated: 08/18/2004
Disclaimer

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