

#### SECTION I: PRODUCT INFORMATION

| PRODUCT:   | Sika <sup>®</sup> Epoxy 820 by Emseal PAI  |                      | PART A REVIS  | SION DATE: October   | 7, 2010                              |
|--|--|----------------------|---|--|--------------------------------------|
| USAGE:   | HIGH-MODULUS, HIGH-STRENGT   |                      | GTH, STRUCTURAL,  | EPOXY PASTE ADH  | IESIVE                               |
| MANUFACTURER: SIKA CANADA INC.<br>601, avenue Delmar<br>Pointe Claire, QC<br>H9R 4A9                                       |  |                      | EC (acligat) (612) 000  |  |                                      |
| EMERGENCY TELEPHONE NUMBER: CANUTECTDG CLASSIFICATION:Not RegulatedUN NUMBER:Not EstablishedPackaging Group:Not Applicable |  |                      | S Classification: D2  | 2A<br>ot Applicable  |                                      |
|  | S  | ECTION II: HAZA      |   | тs   | -                                    |
| Hazardous ingredients  | %  | T.L.V.               | # CAS   | LD <sub>50</sub> (mg/kg)<br>(Species, route)   | LC <sub>50</sub><br>(Species, route) |
| EPOXY RESIN  | 30-60  | Not Available        | 025085-99-8   | > 5000 (oral, rat)   | Not Available                        |
| SILICA SAND  | 30-60  | .1 mg/m <sup>3</sup> | 14808-60-7  | Not available  | Not Available                        |
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|  | SEC  | CTION III: PHYSI     |   | <b>FICS</b>  |                                      |
| Physical State:<br>Appearance and Odor:<br>Odor Threshold:<br>Evaporation Rate:<br>Vapor Density:<br>Vapor Pressure:       | Paste<br>r: White paste with ether odor<br>Not Established<br>Not Applicable<br>Not Established<br>Not Established |                      | Boiling Point:<br>Freezing Point:<br>Density:<br>Water Solubility:<br>pH:<br>% volatility:<br>Water/Oil Distribut | Not Establish<br>Not Establish<br>1.7 g/ml<br>Very low<br>Not Establish<br>Not Applicabl<br>ion: Not Establish | ed<br>ed<br>e                        |



| PRODUCT: Sika <sup>®</sup> I  | Epoxy 820 by Emseal PA                                  | ART A   |   |  |
|---|---|---|---|--|
|   | SECTION IV: FIRE AND                                    | EXPLOSION HAZARDS   |   |  |
| Flammability:<br>If Yes, under what conditions:NoExtinguishing methods:Foam, dry chemical<br>products, CO2, water<br>hose.Special Methods:Fire fighters must we |   | TDG Flammability Class:<br>Flammable upper limits (% vol.):<br>Flammable lower limits (% vol.):<br>Flash Point (method used):<br>Auto-ignition temperature:<br>Dangerous Combustion Products: | Not Regulated<br>Not Applicable<br>Not Applicable<br>Not Applicable<br>Not Established<br>Carbon Oxides,<br>phenol. |  |
| usual protective cl<br>and respiratory  |   | Protect from mechanical impact:<br>Protect from static discharge:   | No<br>No  |  |
| equipment. A water hose<br>may be used to cool the<br>containers and dissipate<br>the vapors.   |   |   |   |  |
|   | SECTION V:  | REACTIVITY  |   |  |
| Chemical stability:<br>If not, under what conditions:   | Yes<br>But excessive<br>heat will degrade<br>the resin. | Dangerous decomposition products:   | Phenol, carbon<br>oxides.   |  |
| Incompatibility with other material: Yes  |   | Polymerization Risks:   | May polymerize<br>at very high  |  |
| If Yes, which ones: Strong acid, base, and oxidizer.  |   |   | temperatures.   |  |



|                | SECTION VI: TO   |                                   |  |
|----------------|--|-----------------------------------|--|
| ROUTE OF E     | ENTRY / CONTACT  |                                   |  |
| Eyes:<br>Skin: | May cause eye irritations.<br>May be irritating to the skin, may cause | Carcinogenicity:                  | According to the IARC,<br>the quartz silica is a<br>probable cause of<br>cancer. |
|                | sensitization.   |                                   |  |
| Inhalation:    | May irritate lungs, may cause an allergic reaction.                    | Toxic effects<br>on reproduction: | Not available  |
| Ingestion:     | May cause irritation to the gastro-                                    | Teratogenicity:                   | Not available  |
|                | intestinal system.   | Mutagenicity:                     | Not available  |
|                |  | Product with synergistic effects: | Not known  |
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| SECTION VII: PREVENTIVE MEASURES     PERSONAL PROTECTIVE EQUIPMENT   OTHERS     Gloves:   Chemical resistant gloves.     Respiratory equipment:   Not necessary under normal use.     Eyes:   Safety glasses     Shoes:   Ordinary     Clothing:   Rubber Apron     Other:   No     Handling and Equipment<br>Methods:   Avoid skin, eye and clothing<br>contact     Warehouse<br>Requirements:   Keep all containers closed in a<br>cool, dry area. Keep away from<br>heat and open flame     Special Shipping<br>Instructions:   See TDG class     Waste Disposal:   Dispose of sand and rinse water<br>according to municipal, provincial<br>or federal laws for disposal of<br>chemicals.  | PRODUCT:   | Sika <sup>®</sup> Epoxy 820 by Emseal PA                                      | ART A  |   |
|--|--|---|--|---|
| Gloves: Chemical resistant gloves. Ventilation: Sufficient ventilation required   Respiratory equipment: Not necessary under normal use. Procedure in case of leaks: Absorb with sand or other absorbent material. Residue may be removed with steam or hot water and soap. All precautions should be taken when cleaning the spill with solvent.   Shoes: Ordinary Handling and Equipment   Clothing: No Handling and Equipment   Methods: Avoid skin, eye and clothing contact   Warehouse Requirements: Keep all containers closed in a cool, dry area. Keep away from heat and open flame   Special Shipping Instructions: Special Shipping Instructions: See TDG class   Waste Disposal: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of |  | SECTION VII: PREV   | ENTIVE MEASURES  |   |
| Respiratory equipment: Not necessary under normal use. Procedure in case of leaks: Absorb with sand or other absorbent material. Residue may be removed with steam or hot water and soap. All precautions should be taken when cleaning the spill with solvent.   Shoes: Ordinary   Clothing: Rubber Apron   Other: No   Handling and Equipment   Methods: Avoid skin, eye and clothing contact   Warehouse Requirements:   Keep all containers closed in a cool, dry area. Keep away from heat and open flame   Special Shipping Instructions: See TDG class   Waste Disposal: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of   | PERSONAL PROTECT                                       | IVE EQUIPMENT   | OTHERS   |   |
| Eyes: Safety glasses   Shoes: Ordinary   Clothing: Rubber Apron   Other: No   Handling and Equipment   Methods: Avoid skin, eye and clothing contact   Warehouse   Requirements: Keep all containers closed in a cool, dry area. Keep away from heat and open flame   Special Shipping   Instructions: See TDG class   Waste Disposal: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of  | Gloves:  | Chemical resistant gloves.  | Ventilation:   | Sufficient ventilation required   |
|  | Respiratory equipment:<br>Eyes:<br>Shoes:<br>Clothing: | Not necessary under normal use.<br>Safety glasses<br>Ordinary<br>Rubber Apron | Procedure in case<br>of leaks:<br>Handling and Equipmer<br>Methods:<br>Warehouse<br>Requirements:<br>Special Shipping<br>Instructions: | Absorb with sand or other<br>absorbent material. Residue may<br>be removed with steam or hot<br>water and soap. All precautions<br>should be taken when cleaning<br>the spill with solvent.<br>Avoid skin, eye and clothing<br>contact<br>Keep all containers closed in a<br>cool, dry area. Keep away from<br>heat and open flame<br>See TDG class<br>Dispose of sand and rinse water<br>according to municipal, provincial<br>or federal laws for disposal of |



| PRODUCT:     | Sika <sup>®</sup> Epoxy 820 by Emseal PART A  |  |  |
|--------------|---|--|--|
|              | SECTION VIII: FIRST AID   |  |  |
|              |   |  |  |
| Skin:        | Remove and clean all contaminated clothing.<br>Wash immediately with plenty of soap and water.<br>Consult a physician if required.        |  |  |
| Eyes:        | Rinse with water for at least 15 minutes.<br>Consult a physician immediately.   |  |  |
| Inhalation:  | In the case of overexposure, evacuate to fresh air.<br>Consult a physician if required.   |  |  |
| Ingestion:   | Drink plenty of water. Do not induce vomiting.<br>Do not give anything by mouth to an unconscious person.<br>See a physician immediately. |  |  |
|              | SECTION IX: PREPARATION INFORMATION   |  |  |
|              |   |  |  |
| Prepared By: | Steve Gosselin  |  |  |

| Prepared By: | Steve Gosselin |
|--------------|----------------|
| Telephone #: | (514) 697-2610 |
| Fax #:       | (514) 694-2792 |

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#### SECTION I: PRODUCT INFORMATION

| PRODUCT:   | ि: Sika <sup>®</sup> Epoxy 820 by Emseal PAF |  | PART B  | ART B REVISION DATE: October 7, 2010 |                                   |
|--|--|--|---|--------------------------------------|-----------------------------------|
| USAGE:   | HIGH-MODUL                                   | US, HIGH-STREI   | NGTH, STRUCTI   | JRAL, EPOXY PAST                     | E ADHESIVE                        |
| MANUFACTURER: SIKA CANADA INC.<br>601, avenue Delmar<br>Pointe Claire, QC<br>H9R 4A9   |  |  | TEC (collect) (61   | 2) 006-6666                          |                                   |
| EMERGENCY TELEPHONE NUMBER: CANUTEC     TDG CLASSIFICATION:   Not Regulated     UN NUMBER:   Not Established     Packaging Group:   Not Applicable   |  |  | C (collect) (613) 996-6666<br>WHMIS Classification: D2A, E<br>Class: Not Applicable |                                      |                                   |
|  | S  | ECTION II: HAZ   | ARDOUS INGRE  | DIENTS                               |                                   |
| Hazardous ingredients  | %  | T.L.V.   | # CAS   | LD₅₀ (mg/ł<br>(Species, ro           |                                   |
| BENZYL ALCOHOL   | 1-5  | Not Available  | . 100-51-   | 6 1230 (oral,                        | rat) 4000 mg/m <sup>3</sup> (rat) |
| TRIDIMETHYLAMINO<br>METHYL PHENOL 2,1-5Not Available.4, 6  |  | . 90-72-2  | 2 1635 (oral,   | rat) .5 mg/L(rat)                    |                                   |
| ALIPHATIC AMINE<br>AND EPOXY RESIN 5-10 Not available<br>COPOLYMER   |  | Not availa   | ble Not Availa  | ble Not Available                    |                                   |
| SILICA SAND 40-70 .1 mg/m <sup>3</sup>   |  | 14808-60   | )-7 Not availal   | ble Not Available                    |                                   |
| PETROLEUM<br>DISTILLATE 1-5 Not available  |  | 68477-31   | -6 2622 (oral,  | rat) Not available                   |                                   |
|  |  |  |   |                                      |                                   |
|  |  |  |   |                                      |                                   |
|  |  |  |   |                                      |                                   |
| SECTION III: PHYSICAL CHARACTERISTICS  |  |  |   |                                      |                                   |
| Physical State:PasteAppearance and Odor:Light grey paste with amine odorOdor Threshold:Not EstablishedEvaporation Rate:Not ApplicableVapor Density:Not EstablishedVapor Pressure:Not Established |  | r Freezing Point<br>Freezing Po<br>Density:<br>Water Solub<br>pH:<br>% volatility:<br>Water/Oil Di | int: Not Esta<br>2.1 g/ml<br>ility: Partial<br>Not Esta<br>0                        | blished                              |                                   |



| PRODUCT: Sika <sup>®</sup> I   | Epoxy 820 by Emseal PA | ART B  |   |  |
|--|------------------------|--|---|--|
|  | SECTION IV: FIRE AND   | EXPLOSION HAZARDS  |   |  |
| Flammability: No   If Yes, under what conditions: No   Extinguishing methods: Foam, dry chemical products, CO <sub>2</sub> , water hose.   Special Methods: Fire fighters must wear usual protective clothing and respiratory equipment. A water hose may be used to cool the containers and dissipate the vapors. |                        | TDG Flammability Class:<br>Flammable upper limits (% vol.):<br>Flammable lower limits (% vol.):<br>Flash Point (method used):<br>Auto-ignition temperature:<br>Dangerous Combustion Products:<br>Protect from mechanical impact:<br>Protect from static discharge: | Not Regulated<br>Not Established<br>> 96°C<br>Not Established<br>Carbon oxides,<br>nitrogen oxides,<br>aldehyde,<br>ketone.<br>No<br>No |  |
|  | SECTION V:             | REACTIVITY   |   |  |
| Chemical stability: Yes<br>If not, under what conditions:  |                        | Dangerous decomposition products:  | Carbon oxides,<br>nitrogen oxides,<br>aldehyde,<br>ketone.  |  |
| Incompatibility with other material: Yes<br>If Yes, which ones: Acid, strong<br>oxidizer, organic<br>halogen,<br>aldehyde,<br>ketone, nitrate,<br>acrylate.  |                        | Polymerization Risks:  | No  |  |



| PRODUCT: Sika <sup>®</sup> Epoxy 820 by Emseal PART B<br>SECTION VI: TOXIC PROPERTIES |   |                                   |  |  |
|---|---|-----------------------------------|--|--|
| ROUTE OF I  | ENTRY / CONTACT   |                                   |  |  |
|   |   |                                   |  |  |
| Eyes:   | May cause eye irritations. May cause severe burns. May cause blindness.   | Carcinogenicity:                  | According to the IARC,<br>the quartz silica is a<br>probable cause of<br>cancer. |  |
| Skin:   | May be irritating to the skin, may cause<br>severe burns. May cause dermatitis,<br>allergic reactions, and sensitization.   | Toxic effects<br>on reproduction: | Not available  |  |
| Inhalation:   | Vapors or mist of this product may cause irritation.  | Teratogenicity:                   | Not available  |  |
| Ingestion:  | May cause severe burns to the mouth,<br>throat and stomach. May cause vomiting,   | Mutagenicity:                     | Yes  |  |
|   | dizziness, diarrhea, damages to the<br>lungs, troubles to the gastro-intestinal<br>system, death.   | Product with synergistic effects: | Not known  |  |
| headaches, i<br>and dizzines<br>May cause p   | osure may cause breathing difficulty,<br>nausea, damages to the lungs, sensitization<br>s.<br>problems to the skin, eyes and lungs. May<br>spiratory and allergic problems. |                                   |  |  |

An acute or chronic exposure will increase the toxic effects mentioned in this section and may aggravate respiratory problems.



| PRODUCT:            | Sika <sup>®</sup> Epoxy 820 by Emseal PA | ART B                             |  |
|---------------------|--|-----------------------------------|--|
|                     | SECTION VII: PREV                        | ENTIVE MEASURES                   |  |
| PERSONAL PROTECT    | TVE EQUIPMENT                            | OTHERS                            |  |
| Gloves:             | Chemical resistant gloves.               | Ventilation:                      | Sufficient ventilation required  |
|                     | Not necessary under normal use.          | Procedure in case<br>Of leaks:    | Absorb with sand or other absorbent material.  |
| Eyes:<br>Shoes:     | Full face mask or safety glasses         | Handling and Equipmen<br>Methods: | nt<br>Avoid skin, eye and clothing<br>contact  |
| Clothing:<br>Other: | Rubber Apron<br>Eye wash station         | Warehouse<br>Requirements:        | Keep all containers closed in a<br>cool, dry and well ventilated area.<br>Keep away from heat and open<br>flame        |
|                     |  | Special Shipping<br>Instructions: | See TDG class  |
|                     |  | Waste Disposal:                   | Dispose of sand and rinse water<br>according to municipal, provincial<br>or federal laws for disposal of<br>chemicals. |
|                     |  |                                   |  |
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|                     |  |                                   |  |
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|                     |  |                                   |  |
|                     |  |                                   |  |



| PRODUCT:     | Sika <sup>®</sup> Epoxy 820 by Emseal PART B  |  |  |
|--------------|---|--|--|
|              | SECTION VIII: FIRST AID   |  |  |
|              |   |  |  |
| Skin:        | Remove contaminated clothing and shoes.<br>Wash immediately with plenty of soap and water.<br>Throw away shoes that were soiled on the inside.<br>Wash clothing before re-wearing.<br>Consult a physician if required.                                |  |  |
| Eyes:        | Rinse eyes immediately with plenty of water for several minutes, while holding eyelids<br>wide open, to ensure a proper wash.<br>The eye rinse within the first minute is essential to ensure maximum protection.<br>Consult a physician immediately. |  |  |
| Inhalation:  | In the case of overexposure, evacuate to fresh air.<br>Consult a physician if required.   |  |  |
| Ingestion:   | Drink plenty of water. Do not induce vomiting.<br>Do not give anything by mouth to an unconscious person.<br>See a physician immediately.   |  |  |
|              | SECTION IX: PREPARATION INFORMATION   |  |  |
|              |   |  |  |
| Prepared By: | Steve Gosselin  |  |  |

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