SAFETY DATA SHEET

SikaBond® Construction Adhesive

SECTION 1. IDENTIFICATION

Product name : SikaBond® Construction Adhesive

Manufacturer or supplier's details

Company name : 601, avenue Delmar
                Canada
                Pointe-Claire, QC  H9R 4A9
                Sika Canada Inc.
                www.sika.ca

Telephone : (514) 697-2610 / 1 (800) 933-7452

Telefax : (514) 694-2792

Health and Safety Services’s e-mail address : ehs@ca.sika.com

Emergency telephone : CANUTEC (collect) (613) 996-6666 (24 hours)

Recommended use of the chemical and restrictions on use

For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Respiratory sensitization : Category 1
Skin sensitization : Sub-category 1A
Carcinogenicity (Inhalation) : Category 1A
Specific target organ systemic toxicity - repeated exposure (Inhalation) : Category 2 (hearing organs)

GHS label elements

Hazard pictograms :

Signal Word : Danger

Hazard Statements : H317 May cause an allergic skin reaction.
                  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Precautionary Statements

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 In case of inadequate ventilation wear respiratory protection.

Response:
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Warning

Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Other hazards
None known.

Supplemental information
If product is in liquid or paste form, physical or health hazards listed related to dust are not considered significant. However, product may contain substances that could be potential hazards if caused to become airborne due to grinding, sanding or other abrasive processes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>&gt;= 1 - &lt; 2</td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>&gt;= 0 - &lt; 1</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>&gt;= 0 - &lt; 1</td>
</tr>
</tbody>
</table>
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**Version**: 1.3  
**Revision Date**: 02/27/2018  
**SDS Number**: 100000005927

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-methylene diphenyl diisocyanate</td>
<td>101-68-8</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
<tr>
<td>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate</td>
<td>41556-26-7</td>
<td>&gt;= 0.1 - &lt; 1</td>
</tr>
</tbody>
</table>

**SECTION 4. FIRST AID MEASURES**

**General advice**: Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

**If inhaled**: Move to fresh air. Consult a physician after significant exposure.

**In case of skin contact**: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.

**In case of eye contact**: Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

**If swallowed**: Clean mouth with water and drink afterwards plenty of water. Do not induce vomiting without medical advice. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**: Sensitizing effects, carcinogenic effects, Asthmatic appearance, Allergic reactions. See Section 11 for more detailed information on health effects and symptoms. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer by inhalation. May cause damage to organs through prolonged or repeated exposure if inhaled.

**Notes to physician**: Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES**

**Suitable extinguishing media**: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Further information**: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
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Special protective equipment for fire-fighters
: In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
: Use personal protective equipment.
Deny access to unprotected persons.

Environmental precautions
: Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion
: Normal measures for preventive fire protection.

Advice on safe handling
: Avoid exceeding the given occupational exposure limits (see section 8).
Do not get in eyes, on skin, or on clothing.
For personal protection see section 8.
Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Smoking, eating and drinking should be prohibited in the application area.
Follow standard hygiene measures when handling chemical products.

Conditions for safe storage
: Prevent unauthorized access.
Store in original container.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Store in accordance with local regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>TWA 100 ppm 434 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 150 ppm 651 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm 434 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 150 ppm 651 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm</td>
<td>CA BC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 150 ppm</td>
<td>CA BC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz (SiO2)</td>
<td>14808-60-7</td>
<td>TWA (Respirable fraction) 0.1 mg/m³</td>
<td>CA ON OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable particulates) 0.025 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (respirable dust) 0.1 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable) 0.025 mg/m³ (Silica)</td>
<td>CA BC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction) 0.025 mg/m³ (Silica)</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>TWA 100 ppm 434 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 125 ppm 543 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 20 ppm</td>
<td>CA BC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 100 ppm 434 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 125 ppm 543 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 20 ppm</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STEL 125 ppm</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,4’-methylene diphenyl diisocyanate</td>
<td>101-68-8</td>
<td>TWA 0.005 ppm</td>
<td>CA BC OEL</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>C 0.01 ppm</td>
<td>CA BC OEL</td>
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<tr>
<td></td>
<td></td>
<td>TWA 0.005 ppm</td>
<td>CA ON OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>C 0.02 ppm</td>
<td>CA ON OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 0.005 ppm 0.05 mg/m³</td>
<td>CA AB OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 0.005 ppm 0.051 mg/m³</td>
<td>CA QC OEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 0.005 ppm</td>
<td>ACGIH</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>Methylhip-</td>
<td>Urine</td>
<td>End of</td>
<td>1.5 g/g cre-</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>Analysis</th>
<th>Measurement</th>
<th>BEI</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>Sum of mandelic acid and phenyl glyoxylic acid</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
</tr>
</tbody>
</table>

**Engineering measures**
Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

**Personal protective equipment**

Respiratory protection
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection

Remarks
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection
Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary.

Skin and body protection
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Hygiene measures
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : paste
Color : various
Odor : aromatic
Odor Threshold : No data available
pH : Not applicable
Melting point/range / Freezing point : No data available
Boiling point/boiling range : No data available
Flash point : Not applicable
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : 0.01 hpa (0.01 mmHg)
Relative vapor density : No data available
Density : 1.457 g/cm3

Solubility(ies)
Water solubility : insoluble
Partition coefficient: n-octanol/water : No data available
Autoignition temperature : No data available
Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : > 20.5 mm2/s (40 °C)

Explosive properties : No data available
Molecular weight : No data available
SECTION 10. STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.
Chemical stability: The product is chemically stable.
Possibility of hazardous reactions: Stable under recommended storage conditions.
Conditions to avoid: No data available
Incompatible materials: No data available
No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute inhalation toxicity: Acute toxicity estimate: > 40 mg/l
   Exposure time: 4 h
   Test atmosphere: vapor
   Method: Calculation method
Acute dermal toxicity: Acute toxicity estimate: > 5,000 mg/kg
   Method: Calculation method

Ingredients:
xylenes:
Acute oral toxicity: LD50 Oral (Rat): 3,523 mg/kg
Acute dermal toxicity: LD50 Dermal (Rabbit): 1,700 mg/kg

ethylbenzene:
Acute oral toxicity: LD50 Oral (Rat): 3,500 mg/kg
Acute dermal toxicity: LD50 Dermal (Rabbit): 5,510 mg/kg

4,4'-methylene diisocyanate:
Acute inhalation toxicity: Acute toxicity estimate: 1.5 mg/l
   Test atmosphere: dust/mist
   Method: Expert judgment

Skin corrosion/irritation
Not classified based on available information.

Serious eye damage/eye irritation
Not classified based on available information.
Respiratory or skin sensitization
Skin sensitization: May cause an allergic skin reaction.
Respiratory sensitization: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity
Not classified based on available information.

Carcinogenicity
May cause cancer by inhalation.

### IARC

- Group 1: Carcinogenic to humans
  - Quartz (SiO2) <5µm
    - 14808-60-7
- Group 2B: Possibly carcinogenic to humans
  - Titanium dioxide
    - 13463-67-7
  - Ethylbenzene
    - 100-41-4
  - Carbon black
    - 1333-86-4

### NTP

- Known to be human carcinogen
  - Quartz (SiO2) <5µm
    - 14808-60-7

Reproductive toxicity
Not classified based on available information.

**STOT-single exposure**
Not classified based on available information.

**STOT-repeated exposure**
May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

Aspiration toxicity
Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Ingredients:**

- xlenes:
  - Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 3.3 mg/l
  - Exposure time: 96 h

Persistence and degradability
No data available

Bioaccumulative potential
No data available
Mobility in soil
No data available

Other adverse effects
Product:
Additional ecological information: Do not empty into drains; dispose of this material and its container in a safe way. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

Domestic regulation
TDG (road/train)
Not dangerous goods

International Regulations
IATA-DGR
Not dangerous goods
IMDG-Code
Not dangerous goods

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15. REGULATORY INFORMATION

Canadian PBT Chemicals: This product contains the following components on the DSL that are classified as Persistent, Bioaccumulative and/or Toxic (PBT) under CEPA: bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate

Canadian lists
No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION
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Revision Date: 02/27/2018

Prepared by: R & D of Sika Canada Inc.

Notice to Reader:
The information contained in this Material Safety Data Sheet applies only to the actual Sika Canada product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Material Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed.

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Full text of other abbreviations

ADR
Accord européen relatif au transport international des marchandises Dangereuses par Route

CAS
Chemical Abstracts Service

DNEL
Derived no-effect level

EC50
Half maximal effective concentration

GHS
Globally Harmonized System

IATA
International Air Transport Association

IMDG
International Maritime Code for Dangerous Goods

LD50
Median lethal dose (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals)

LC50
Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)

MARPOL
International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978

OEL
Occupational Exposure Limit

PBT
Persistent, bioaccumulative and toxic

PNEC
Predicted no effect concentration

REACH

SVHC
Substances of Very High Concern

vPvB
Very persistent and very bioaccumulative

CA / Z8