



**SECTION I: PRODUCT INFORMATION**

PRODUCT: **Sikaflex®-221 (MSDS N° 604251)** REVISION DATE: November 4, 2013

USAGE: ONE COMPONENT URETHANE BASED ADHESIVE / SEALANT

SUPPLIER: SIKA CANADA INC.  
601, avenue Delmar  
Pointe Claire, QC  
H9R 4A9

**EMERGENCY TELEPHONE NUMBER: CANUTEC (collect) (613) 996-6666**

TDG CLASSIFICATION:	Not Regulated	WHMIS Classification:	B3, D2A, D2B
UN NUMBER:	Not Established	Class:	Not Applicable
Packaging Group:	Not Applicable		

**SECTION II: HAZARDOUS INGREDIENTS**

Hazardous ingredients	%	T.L.V.	# CAS	LD <sub>50</sub> (mg/kg) (route, species)	LC <sub>50</sub> (species, route)
CALCIUM OXIDE	1-5	Not Available	1305-78-8	Not Available	Not Available
XYLENE	3-7	ACGIH 100ppm (TWA) 150ppm (STEL)	1330-20-7	4300 (oral, rat)	6350ppmh/4H (rat)
POLYOL AND ISOCYANATE PREPOLYMER	15-40	Not Established	Not Available	Not Established	Not Established

**SECTION III: PHYSICAL CHARACTERISTICS**

Physical State:	Paste	Boiling Point:	Not Established
Appearance and Odor:	Aromatic odor colored paste	Freezing Point:	Not Established
Odor Threshold:	Not Established	Density:	1.2 g/ml
Evaporation Rate:	Not Established	Water Solubility:	Not Established
Vapor Density:	Not Established	pH:	Not Established
Vapor Pressure:	Not Established	% volatile:	< 10
		Water/Oil Distribution:	Not Established



PRODUCT: Sikaflex®-221

MSDS N° 604251

SECTION IV: FIRE AND EXPLOSION HAZARDS

Flammability: Combustible  
 If Yes, under what conditions: Flame, spark  
 Extinguishing methods: Foam, dry chemical products, CO<sub>2</sub>, water for large flames.  
 Special Methods: Firefighters must wear complete protective clothing with respiratory equipment and they must protect any exposed skin. Heated isocyanates react strongly with water.

TDG inflammability Class: Not Regulated  
 Flammable upper limits (% vol.): Not Established  
 Flammable lower limits (% vol.): Not Established  
 Flash Point (method used): > 80°C  
 Auto-ignition temperature: Not Established  
 Dangerous Combustion Products: Carbon oxides, Aldehydes, Ketones, HCL, Nitrogen oxide, TDI, MDI.  
 Protect from mechanical impact: No  
 Protect from static discharge: No

SECTION V: REACTIVITY DATA

Chemical stability: Yes  
 If not, under what conditions  
 Incompatibility with other material: Yes  
 If Yes, which ones: Acid, strong oxidizer, amine

Dangerous decomposition products: Carbon oxides, Aldehydes, Ketones, HCL, nitrogen oxide, TDI, MDI.  
 Polymerization Risks: No



PRODUCT: Sikaflex®-221

MSDS N° 604251

SECTION VI: TOXIC PROPERTIES

ROUTE OF ENTRY / CONTACT

Eyes: Irritating.

Skin: Irritating. Contact may result in dermatitis, allergic reactions, and sensitization.

Inhalation: Vapor or mist from this product may cause irritation.

Ingestion: May cause nausea, vomiting, diarrhea, gastro-intestinal system disorder, constipation.

Carcinogenicity: Not Established

Toxic effects on reproduction: Not Established

Teratogenicity: Xylene is classified as a development toxicant (Embryo toxin)

Mutagenicity: Not Established

Product with synergistic effects: Not Established

Over exposure may cause breathing difficulties, sensitization, headaches, nausea, vomiting. May aggravate respiratory, skin, eye, lung problems and allergies.

If the product is applied according to the manufacturer, none of these symptoms should be encountered.

A person who is sensitized to isocyanate may have a reaction with a level of isocyanate well below the T.L.V.

Xylene is a central nervous system depressor and in rare cases, may cause a sensitization of the heart muscle causing arrhythmia.

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



PRODUCT: Sikaflex®-221

MSDS N° 604251

SECTION VII: PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

Gloves: Use chemical resistant gloves.

Respiratory equipment: Use a NIOSH /MSHA approved air purifying organic vapor mask if ventilation is not sufficient.

Eyes: Full-face mask or safety glasses

Shoes: Leather

Clothing: Rubber Apron

Other: Eye wash station, shower

OTHERS

Ventilation: Sufficient ventilation required

Procedure in case of leaks: Absorb with sand or other absorbent material.

Handling and Equipment methods: Avoid skin, eye and clothing contact

Warehouse Requirements: Keep all containers closed in a cool, dry and well ventilated area.

Special Shipping Instructions: See TDG class

Waste Disposal: Dispose of sand and rinse water according to municipal, provincial or federal laws for disposal of chemicals.



PRODUCT: Sikaflex®-221

MSDS N° 604251

SECTION VIII: FIRST AID

- Skin : Remove contaminated clothing and shoes.  
Wash immediately with plenty of water.  
Wash clothing before re-wearing.  
Consult a physician if required.
- Eyes : Rinse eyes immediately with plenty of water for several minutes to ensure a proper wash.  
See a physician immediately.
- Inhalation : In the case of overexposure, evacuate to fresh air.  
Consult a physician if required.
- Ingestion : Drink plenty of water. Do not induce vomiting.  
Do not give anything by mouth to an unconscious person.  
See a physician immediately.

SECTION IX: PREPARATION INFORMATION

Prepared By: R & D of Sika Canada Inc.  
 Telephone #: (514) 697-2610  
 Fax #: (514) 694-2792

**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 in Section IX of this MSDS.*

**SIKA MAKES NO WARRANTIES EXPRESS OR IMPLIED AND ASSUMES NO LIABILITY ARISING FROM THIS INFORMATION OR ITS USE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES AND SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

*All sales of Sika products are subject to its current terms and conditions of sale available at [www.sika.ca](http://www.sika.ca) or 514-697-2610.*