



SECTION I: PRODUCT INFORMATION

PRODUCT: **Sikaflex®-221 (MSDS N° 604251)** REVISION DATE: October 4, 2023

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 ₅₀ (mg/kg) (route, species) | LC ₅₀ (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 |
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SECTION III: PHYSICAL CHARACTERISTICS

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

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SECTION IV: FIRE AND EXPLOSION HAZARDS

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|--------------------------------|--|----------------------------------|---|
| Flammability: | Combustible | TDG inflammability Class: | Not Regulated |
| If Yes, under what conditions: | Flame, spark | Flammable upper limits (% vol.): | Not Established |
| | | Flammable lower limits (% vol.): | Not Established |
| | | Flash Point (method used): | > 80°C |
| Extinguishing methods: | Foam, dry chemical products, CO ₂ , water for large flames. | Auto-ignition temperature: | Not Established |
| | | Dangerous Combustion Products: | Carbon oxides, Aldehydes, Ketones, HCL, Nitrogen oxide, TDI, MDI. |
| Special Methods: | Firefighters must wear complete protective clothing with respiratory equipment and they must protect any exposed skin. Heated isocyanates react strongly with water. | Protect from mechanical impact: | No |
| | | Protect from static discharge: | No |

SECTION V: REACTIVITY DATA

| | | | |
|--------------------------------------|------------------------------|-----------------------------------|---|
| Chemical stability: | Yes | Dangerous decomposition products: | Carbon oxides, Aldehydes, Ketones, HCL, nitrogen oxide, TDI, MDI. |
| If not, under what conditions | | | |
| Incompatibility with other material: | Yes | Polymerization Risks: | No |
| If Yes, which ones: | Acid, strong oxidizer, amine | | |

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SECTION VI: TOXIC PROPERTIES

ROUTE OF ENTRY / CONTACT

Eyes: Irritating.

Carcinogenicity: Not Established

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

Toxic effects on reproduction: Not Established

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

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

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

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.

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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.



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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

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