

**1. Product and company identification**

Product name	Sikaflex®-211 US
Supplier	Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071
Telephone	(201) 933-8800
Telefax	(201) 804-1076
Emergency telephone	CHEMTREC: 800-424-9300
e-mail address of person responsible for this SDS	INTERNATIONAL: 703-527-3887 ehs@sika-corp.com
Manufacturer	Sika Corporation, Operations 201 Polito Avenue Lyndhurst, NJ 07071 www.sikausa.com
Telephone	(201) 933 - 8800
Chemical family	Polyurethane

2. Hazards identification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Potential Health Effects

Inhalation	May cause allergic respiratory reaction. Harmful if inhaled in high concentrations
Skin	Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.
Warning	Causes central nervous system depression Possible cancer hazard. Contains material which may cause cancer based on animal data.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

<u>Component</u>	<u>CAS Number</u>
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich	68515-49-1
Polyisocyanateprepolymer TDI based	57451-08-8
titanium dioxide	13463-67-7
xylene	1330-20-7
ethylbenzene	100-41-4
quartz (SiO ₂)	14808-60-7



There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

First aid procedures

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention immediately if irritation develops and persists.
Eye contact	If easy to do, remove contact lens, if worn. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.
Ingestion	If swallowed, contact a poison control center or physician immediately. Do NOT induce vomiting unless directed to do so by medical personnel Never give anything by mouth to an unconscious person. Get medical attention immediately.

Notes to physician

Treatment	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
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5. Fire-fighting measures

Fire fighting

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	none
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. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk without suitable training.

Protective equipment and precautions for firefighters

Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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6. Accidental release measures

Personal precautions	Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. No action shall be taken involving any personal risk without suitable training. Keep people away from and upwind of spill/leak. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Material can create slippery conditions.
Environmental precautions	Local authorities should be advised if significant spillages cannot be contained. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Methods for containment and cleaning up	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Large spills should be collected mechanically (remove by pumping) for disposal.

7. Handling and storage

Handling	For personal protection see section 8. Avoid inhalation, ingestion and contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. To maintain product quality, do not store in heat or direct sunlight. Store in accordance with local regulations.

8. Exposure controls/personal protection

<u>Exposure limit(s)</u>					
<u>Component</u>	<u>CAS Number</u>	<u>Content %</u>	<u>Basis *</u>	<u>Value</u>	<u>Exposure limit(s) / Form of exposure</u>
xylene	1330-20-7	1 - 5	ACGIH	TWA	100 ppm
			ACGIH	STEL	150 ppm
		1 - 5	OSHA Z-1	TWA	100 ppm 435 mg/m3
			OSHA P0	TWA	100 ppm 435 mg/m3
		1 - 5	OSHA P0	STEL	150 ppm



					655 mg/m3
ethylbenzene	100-41-4	0.1 - 1	ACGIH	TWA	100 ppm
		0.1 - 1	ACGIH	STEL	125 ppm
		0.1 - 1	OSHA Z-1	TWA	100 ppm 435 mg/m3
		0.1 - 1	OSHA P0	TWA	100 ppm 435 mg/m3
		0.1 - 1	OSHA P0	STEL	125 ppm 545 mg/m3

*** Basis**

ACGIH. Threshold Limit Values (TLV)
 OSHA P0. Table Z-1, Limit for Air Contaminat (1989 Vacated Values)
 OSHA P1. Permissible Exposure Limits (PEL), Table Z-1, Limit for Air Contaminant
 OSHA P2. Permissible Exposure Limits (PEL), Table Z-2
 OSHA Z3. Table Z-3, Mineral Dust

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

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

Hand protection 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.

Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection Use a properly fitted, 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.

Hygiene measures Avoid contact with skin, eyes and clothing.
 Handle in accordance with good industrial hygiene and safety practice.
 Wash hands before breaks and immediately after handling the product.
 Remove contaminated clothing and protective equipment before entering eating areas.
 Wash thoroughly after handling.



9. Physical and chemical properties

Appearance

Form	paste
Color	various
Odor	aromatic

Safety data

Flash point	Note: not applicable
Density	1.457 g/cm ³
Volatile organic compounds (VOC) content	42.3 g/l

10. Stability and reactivity

Stability	Stable under normal conditions.
Conditions to avoid	not applicable
Materials to avoid	not applicable
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Chronic Exposure	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 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.
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Carcinogenicity

IARC	Group 1: Carcinogenic to humans quartz (SiO ₂) 14808-60-7 Group 2B: Possibly carcinogenic to humans titanium dioxide 13463-67-7 ethylbenzene 100-41-4
OSHA	not applicable
NTP	not applicable
ACGIH	Suspected human carcinogen quartz (SiO ₂) 14808-60-7 Confirmed animal carcinogen with unknown relevance to humans ethylbenzene 100-41-4



12. Ecological information

Other 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.
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13. Disposal considerations

Waste disposal methods	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.
Packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
Not dangerous goods
IATA
Not dangerous goods
IMDG
Not dangerous goods

15. Regulatory information

Federal Regulations

TSCA Status	On TSCA Inventory
SARA 311/312 Hazards	Acute Health Hazard Chronic Health Hazard

EPCRA - Emergency Planning Community Right - To - Know

SARA 302 Ingredients	not applicable		
SARA 313 Ingredients	xylene	1330-20-7	2.6 %

Clean Air Act

Ozone-Depletion Potential	This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

xylene	1330-20-7	2.6 %
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This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

State Regulations



**California Prop. 65
Ingredients**

WARNING! This product contains a chemical known in the State of California to cause cancer.

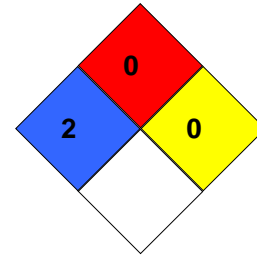
WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

16. Other information

HMIS Classification

Health	*	2
Flammability		0
Physical Hazard		0
Personal Protection	C	

NFPA Classification



Caution: HMIS® ratings and NFPA ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® and NFPA ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® and NFPA ratings are to be used with a fully implemented HMIS® and NFPA program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). NFPA or the National Fire Protection Association is a private non-profit organization and an authoritative source of technical background, data, and consumer advice on fire protection, problems and prevention. Please note HMIS® attempts to convey full health warning information to all employees while NFPA is meant primarily for fire fighters and other emergency responders.

Notes to Reader

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