



# Material Safety Data Sheet

Sikaflex Crack Flex

## 1. Product and company identification

**Product name** : Sikaflex Crack Flex  
**Supplier** : Sika Corporation, Construction  
201 Polito Avenue  
Lyndhurst, NJ 07071  
www.sikausa.com  
**Telephone no.** : (201) 933 - 8800  
**Fax no.** : (201) 804 - 1076  
**In case of emergency** : CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887  
**Manufacturer** : Sika Corporation, Operations  
201 Polito Avenue  
Lyndhurst, NJ 07071  
www.sikausa.com  
**Telephone no.** : (201) 933 - 8800  
**Validation date** : **8. December 2011.**  
**Print date** : 8. December 2011.  
**Product type** : Liquid.

## 2. Composition/information on ingredients

<u>Name</u>	<u>CAS number</u>	<u>%</u>
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate	4098-71-9	10 - 30
xylene	1330-20-7	1 - 5
calcium hydroxide	1305-62-0	0.5 - 1.5
ethylbenzene	100-41-4	<1

**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.**

## 3. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Potential acute health effects

**Inhalation** : Irritating to respiratory system.  
**Ingestion** : Harmful if swallowed.  
**Skin** : May cause skin irritation.  
**Eyes** : May cause eye irritation.

See toxicological information (Section 11)

## 4. First aid measures

**Eye contact** : Check for and remove any contact lenses. Get medical attention. Immediately flush eyes with plenty of water for at least 15 minutes.  
**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse.

## 4 . First aid measures

- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Ingestion** : Wash out mouth with water. Move exposed person to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention. Never give anything by mouth to an unconscious person.
- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

## 5 . Fire-fighting measures

- Flammability of the product** : Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Not suitable** : Do not use water jet.
- Special exposure hazards** : 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 or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
metal oxide/oxides
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

## 6 . Accidental release measures

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8 . Exposure controls/personal protection

### Product name

3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

### Exposure limits

**ACGIH TLV (United States, 1/2007).**

TWA: 0.005 ppm 8 hour(s).

**NIOSH REL (United States, 12/2001). Skin**

STEL: 0.18 mg/m<sup>3</sup> 15 minute(s).

STEL: 0.02 ppm 15 minute(s).

TWA: 0.045 mg/m<sup>3</sup> 10 hour(s).

TWA: 0.005 ppm 10 hour(s).

**OSHA PEL 1989 (United States, 3/1989). Skin**

STEL: 0.02 ppm 15 minute(s).

TWA: 0.01 ppm 8 hour(s).

xylene

**ACGIH TLV (United States, 1/2007).**

STEL: 651 mg/m<sup>3</sup> 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 434 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

**OSHA PEL (United States, 11/2006).**

TWA: 435 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

**OSHA PEL 1989 (United States, 3/1989).**

STEL: 655 mg/m<sup>3</sup> 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 435 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

ethylbenzene

**ACGIH TLV (United States, 1/2007). Notes: Substances for which there is a Biological Exposure Index or Indices 2002 Adoption.**

## 8 . Exposure controls/personal protection

STEL: 125 ppm 15 minute(s).

TWA: 100 ppm 8 hour(s).

**NIOSH REL (United States, 12/2001).**

STEL: 545 mg/m<sup>3</sup> 15 minute(s).

STEL: 125 ppm 15 minute(s).

TWA: 435 mg/m<sup>3</sup> 10 hour(s).

TWA: 100 ppm 10 hour(s).

**OSHA PEL (United States, 11/2006).**

TWA: 435 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

**OSHA PEL 1989 (United States, 3/1989).**

STEL: 545 mg/m<sup>3</sup> 15 minute(s).

STEL: 125 ppm 15 minute(s).

TWA: 435 mg/m<sup>3</sup> 8 hour(s).

TWA: 100 ppm 8 hour(s).

- Engineering measures** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Personal protection**
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 9 . Physical and chemical properties

- Physical state** : Viscous liquid.
- Flash point** : Closed cup: 91°C (195.8°F)
- Color** : Gray.
- Odor** : Aromatic.
- Density** : ~1.185 g/cm<sup>3</sup>
- VOC** : 51.6 g/l

## 10 . Stability and reactivity

- Stability** : The product is stable.
- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Materials to avoid** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Hazardous polymerization** : Under normal conditions of storage and use, hazardous polymerization will not occur.

## 11 . Toxicological information

### Potential chronic health effects

- Chronic effects** : May cause sensitization by inhalation. May cause sensitization by skin contact.
- Carcinogenicity** : Contains material which may cause cancer, based on animal data. Risk of cancer depends on duration and level of exposure. 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.

### Acute toxicity

- Conclusion/Summary** : Not available.

### Carcinogenicity

#### Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
xylene	A4	3	-	-	-	-
ethylbenzene	A3	2B	-	-	-	-

## 12 . Ecological information

- Environmental effects** : No known significant effects or critical hazards.

## 13 . Disposal considerations

- Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

## 14 . Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Additional information
DOT Classification	Not regulated.		-	-	-
TDG Classification	Not regulated.		-	-	-
ADR/RID Class	Not regulated.		-	-	-
IMDG Class	Not regulated.		-	-	-
IATA-DGR Class	Not regulated.		-	-	-

PG\* : Packing group

## 15 . Regulatory information

- U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.  
**SARA 302/304/311/312 extremely hazardous substances**: No products were found.  
**SARA 302/304 emergency planning and notification**: No products were found.  
**SARA 302/304/311/312 hazardous chemicals**: xylene; calcium carbonate; Ethene, chloro-, homopolymer; titanium dioxide  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**:  
xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard;  
calcium carbonate: Immediate (acute) health hazard; Ethene, chloro-, homopolymer:  
Delayed (chronic) health hazard; titanium dioxide: Immediate (acute) health hazard  
**Clean Water Act (CWA) 307**: ethylbenzene; vinyl chloride  
**Clean Water Act (CWA) 311**: xylene; ethylbenzene  
**Clean Air Act (CAA) 112 accidental release prevention**: vinyl chloride  
**Clean Air Act (CAA) 112 regulated flammable substances**: vinyl chloride  
**Clean Air Act (CAA) 112 regulated toxic substances**: No products were found.

### SARA 313

	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
<b>Form R - Reporting requirements</b>	xylene	1330-20-7	1 - 5
	ethylbenzene	100-41-4	<1

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

- State regulations** :
- Massachusetts Substances:** The following components are listed:  
TITANIUM DIOXIDE; XYLENE
  - New Jersey Hazardous Substances:** The following components are listed:  
TITANIUM DIOXIDE; ETHYL BENZENE; XYLENES
  - New York Acutely Hazardous Substances:** The following components are listed:  
Ethylbenzene; Xylene (mixed)
  - Pennsylvania RTK Hazardous Substances:** The following components are listed:  
TITANIUM OXIDE (TIO<sub>2</sub>); BENZENE, ETHYL-; BENZENE, DIMETHYL-

### California Prop. 65

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

## 15 . Regulatory information

<u>Ingredient name</u>	<u>Cancer</u>	<u>Reproductive</u>	<u>No significant risk level</u>	<u>Maximum acceptable dosage level</u>
1,2-Benzenedicarboxylic acid, di-C9-11-branched alkyl esters, C10-rich ethylbenzene	No.	Yes.	No.	No.
	Yes.	No.	No.	No.
<b>United States inventory (TSCA 8b)</b>	: All components are listed or exempted.			

## 16 . Other information

**Hazardous Material Information System (U.S.A.)** :

Health	* 2
Flammability	2
Physical hazards	0
Personal Protection Equipment	C

Caution: HMIS® 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® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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✓ Indicates information that has changed from previously issued version.

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