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SECTION 1. IDENTIFICATION

Product name	:	Sikaflex [®] -2c NS EZ Mix+ Part B
Company name	:	Sika Corporation
		201 Polito Avenue Lyndhurst, NJ 07071 USA www.sikausa.com
Telephone	:	(201) 933-8800
Telefax	:	(201) 804-1076
E-mail address	:	ehs@sika-corp.com
Emergency telephone	:	CHEMTREC: 800-424-9300 INTERNATIONAL: +1-703-527-3887
Recommended use of the chemical and restrictions on use	:	For further information, refer to product data sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accore 1910.1200)	dan	ce with the OSHA Hazard Communication Standard (29 CFR
Flammable liquids	:	Category 4
Acute toxicity (Inhalation)	:	Category 4
Skin irritation	:	Category 2
Eye irritation	:	Category 2A
Respiratory sensitization	:	Category 1
Skin sensitization	:	Category 1
Specific target organ toxicity - repeated exposure (Inhala- tion)	:	Category 2
GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
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Hazard Statements	 H227 Combustible liquid. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary Statements	 Prevention: P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 Wear respiratory protection.
	 Response: P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P362 + P364 Take off contaminated clothing and wash it before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
	Storage: P403 Store in a well-ventilated place.
	Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.
Additional Labeling	

There are no ingredients with unknown acute toxicity used in a mixture at a concentration >= 1%.





Other hazards

Intentional misuse by deliberate concentration and inhalation of vapor may be harmful or fatal.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra-
			tion (% w/w)
xylene	1330-20-7	Flam. Liq. 3; H226	>= 5 - < 10
		Acute Tox. 4; H332	
		Acute Tox. 4; H312	
		Skin Irrit. 2; H315	
		Eye Irrit. 2A; H319	
		STOT SE 3; H335	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
3-isocyanatomethyl-3,5,5-	4098-71-9	Acute Tox. 1; H330	>= 1 - < 5
trimethylcyclohexyl isocyanate		Skin Corr. 1C; H314	
		Eye Dam. 1; H318	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
ethylbenzene	100-41-4	Flam. Liq. 2; H225	>= 1 - < 5
		Acute Tox. 4; H332	
		STOT RE 2; H373	
		Asp. Tox. 1; H304	
		Eye Irrit. 2A; H319	
4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332	>= 1 - < 5
		Skin Irrit. 2; H315	
		Eye Irrit. 2B; H320	
		Resp. Sens. 1; H334	
		Skin Sens. 1; H317	
		STOT SE 3; H335	
		STOT RE 2; H373	

Actual concentration is withheld as a trade secret

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 attend- ance.
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.

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In case of eye contact	:	Immediately flush eye(s) with plenty of water. 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	:	irritant effects sensitizing effects Asthmatic appearance Respiratory disorder Allergic reactions Excessive lachrymation Erythema Headache Dermatitis Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. 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	:	Carbon dioxide (CO2)
Unsuitable extinguishing media	:	Water
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.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	:	Use personal protective equipment.
tive equipment and emer-		Deny access to unprotected persons.
gency procedures		

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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 formation of aerosol. Do not breathe vapors or spray mist. 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. Provide sufficient air exchange and/or exhaust in work rooms. Follow standard hygiene measures when handling chemical products.
Conditions for safe storage	:	Store in original container. Keep in a well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Store in accordance with local regulations.
Materials to avoid	:	Explosives Oxidizing agents Poisonous gases Poisonous liquids

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
xylene	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1



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1	1		100 mm	
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	TWA	0.005 ppm	OSHA P0
		STEL	0.02 ppm	OSHA P0
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
4,4'-methylenediphenyl diiso- cyanate	101-68-8	TWA	0.005 ppm	ACGIH
		С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 mg/m3	OSHA P0

The above constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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 pro- cess enclosures, local exhaust ventilation or other engineer- ing controls to keep worker exposure below any recommend- ed or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive 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 as- sessment indicates this is necessary.			
	The filter class for the respirator must be suitable for the max- imum expected contaminant concentration (gas/vapor/aerosol/particulates) that may arise when han- dling the product. If this concentration is exceeded, self- contained breathing apparatus must be used.			
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.			
Eye protection :	Safety eyewear complying with an approved standard should			
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	be used when a risk assessment indicates this is necessary.
Skin and body protection :	Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.
Hygiene measures :	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Remove contaminated clothing and protective equipment before entering eating areas. Wash thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	transparent
Odor	:	aromatic
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	ca. 159.4 °F / 70.8 °C (Method: closed cup)
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	7.9993 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.02 g/cm3 (74.7 °F / 23.7 °C)
Solubility(ies) Water solubility	:	insoluble

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Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water Autoignition temperature		No data available
		No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic		No data available
Viscosity, kinematic	:	> 20.5 mm2/s (104 °F / 40 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds (VOC) content	:	51 g/l A+B Combined

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 reac- tions	:	Stable under recommended storage conditions.
Conditions to avoid	:	Extremes of temperature and direct sunlight.
Incompatible materials	:	No data available
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity Harmful if inhaled.					
Components:					
xylene: Acute oral toxicity	:	LD50 Oral (Rat): 3,523 mg/kg			
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 1,700 mg/kg			
3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate:					

Acute oral toxicity : LD50 Oral (Rat): 4,814 mg/kg

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Acute inhalation	n toxicity	:	LC50 (Rat): 0.031 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute dermal to	oxicity	:	LD50 Dermal (Rat): > 7,000 mg/kg		
ethylbenzene:					
Acute oral toxic		:	LD50 Oral (Rat): 3,500 mg/kg		
Acute dermal to	oxicity	:	LD50 Dermal (Rabbit): 5,510 mg/kg]	
4,4'-methylene	diphenyl diiso	ocv	anate:		
Acute oral toxic		:	LD50 Oral (Rat): > 4,700 mg/kg Method: OECD Test Guideline 401		
Acute inhalation	n toxicity	:	LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment		
Skin corrosior Causes skin irr					
Serious eye da Causes serious		tati	on		
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 mut Not classified b		ble	information.		
Carcinogenici	ty				
Not classified based on available information. IARC Group 2B: Possibly carcinogenic to humans				100-41-4	
OSHA	Not applicable	•			
NTP	Not applicable	•			
•	Reproductive toxicity				
Not classified based on available information. STOT-single exposure					
Si Si Singice					

Not classified based on available information.



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STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure if inhaled. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

xylene: Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2 mg/l Method: OECD Test Guideline 201
Toxicity to fish (Chronic tox- : icity)	NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l Exposure time: 56 d
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia): 1.17 mg/l Exposure time: 7 d
ethylbenzene:	
Persistence and degradability No data available	
Bioaccumulative potential No data available	
Mobility in soil No data available	
Other adverse effects	
Product: Additional ecological infor- : mation	Do not empty into drains; dispose of this material and its con- tainer 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 han-

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dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

TSCA list

: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Compone	ent TPQ (lbs)
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9		500
SARA 311/312 Hazards : SARA 313 :	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Respiratory or skin sensitization Specific target organ toxicity (single or repeated exposure) Skin corrosion or irritation Serious eye damage or eye irritation The following components are subject to reporting levels es- tablished by SARA Title III, Section 313:		
	tablished by SARA xylene	Title III, Section 313: 1330-20-7	>= 5 - < 10 %
	3- isocyanatome- thyl-3,5,5- trimethylcyclo- hexyl isocyanate	4098-71-9	>= 1 - < 5 %

Sikaflex[®]-2c NS E

atiex [®] -2C NS EZ IVII	JIKa			
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	ethylbenzene	100-41-4	>= 1 - < 5 %	
	4,4'- methylenediphe- nyl diisocyanate	101-68-8	>= 1 - < 5 %	
Clean Air Act				
The following chemical(s) a	are listed as HAP under th	ne U.S. Clean Ai	r Act, Section 112 (40 CFR 61):	
xylene	1330-20-7		>= 5 - < 10 %	

MARNING: Cancer and Reproductive Harm -

www.P65Warnings.ca.gov

>= 1 - < 5 %

>= 1 - < 5 %

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California Prop 65

ethylbenzene

diisocyanate

4,4'-methylenediphenyl

SECTION 16. OTHER INFORMATION Full text of other abbreviations			
OSHA P0		USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000	
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants	
ACGIH / TWA	:	8-hour, time-weighted average	
ACGIH / STEL		Short-term exposure limit	
OSHA P0 / TWA		8-hour time weighted average	
OSHA P0 / STEL	:	Short-term exposure limit	
OSHA P0 / C	:	Ceiling limit	
OSHA Z-1 / TWA	:	8-hour time weighted average	
OSHA Z-1 / C	:	Ceiling	

100-41-4

101-68-8

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") 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 Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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