SikaFix® HH LV

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SECTION 1. IDENTIFICATION

Product name	:	SikaFix [®] HH LV
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 accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)			
Acute toxicity (Inhalation)	:	Category 4	
Skin irritation	:	Category 2	
Eye irritation	:	Category 2A	
Respiratory sensitization	:	Category 1	
Skin sensitization	:	Category 1	
Reproductive toxicity	:	Category 1B	
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system)	

Specific target organ toxicity : Category 2 - repeated exposure (Inhala-

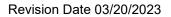
GHS label elements

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Hazard pictograms	
Signal Word	Danger
Hazard Statements	 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. H335 May cause respiratory irritation. H360 May damage fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
Precautionary Statements	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. 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. P308 + P313 IF exposed or concerned: Get medical advice/ attention. 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. B403 + P233 Store in a well-ventilated place. Keep container tightly closed.





P405 Store locked up.

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

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No.	Classification	Concentra- tion (% w/w)
Diphenylmethanediisocyanate, iso- meres and homologues	9016-87-9	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 20 - < 30
4,4'-methylenediphenyl diisocyanate	101-68-8	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2B; H320 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335 STOT RE 2; H373	>= 20 - < 30
propylene carbonate Dibutyltin dilaurate	108-32-7 77-58-7	Eye Irrit. 2A; H319 Eye Irrit. 2A; H319 Skin Sens. 1; H317 Muta. 2; H341 Repr. 1B; H360 STOT SE 1; H370 STOT RE 1; H372	>= 5 - < 10 >= 0.1 - < 1

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.

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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.
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 toxic effects for reproduction Asthmatic appearance Cough 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 respiratory irritation. May damage fertility or the unborn child. 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	:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Deny access to unprotected persons.
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. 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. Pregnant women or women of child-bearing age should not be exposed to this product. 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.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters



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Diphenylmethanediisocyanate, isomeres and homologues	9016-87-9	С	0.02 ppm 0.2 mg/m3	OSHA Z-1
		С	0.02 ppm 0.2 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	worl proc cess ing	of adequate ventilation should be sufficient to control ker exposure to airborne contaminants. If the use of this duct generates dust, fumes, gas, vapor or mist, use pro- s enclosures, local exhaust ventilation or other engineer- controls to keep worker exposure below any recommend- or statutory limits.
Personal protective equipmer		
Respiratory protection	resp	a properly fitted NIOSH approved air-purifying or air-fed birator complying with an approved standard if a risk as- sment indicates this is necessary.
	imu (gas dling	filter class for the respirator must be suitable for the max- m expected contaminant concentration s/vapor/aerosol/particulates) that may arise when han- g the product. If this concentration is exceeded, self- tained breathing apparatus must be used.
Hand protection	app	mical-resistant, impervious gloves complying with an roved standard should be worn at all times when handling mical products if a risk assessment indicates this is nec- ary.
Eye protection		ety eyewear complying with an approved standard should used when a risk assessment indicates this is necessary.
Skin and body protection	trati	ose body protection in relation to its type, to the concen- on and amount of dangerous substances, and to the spe- work-place.
Hygiene measures	Was the Ren befo	id contact with skin, eyes and clothing. sh hands before breaks and immediately after handling product. nove contaminated clothing and protective equipment ore entering eating areas. sh thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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Appearance	:	liquid
Color	:	light yellow
Odor	:	slight, musty
Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 199.9 °F / > 93.3 °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	:	0.04 hpa
Relative vapor density	:	No data available
Density	:	1.15 g/cm3 (77 °F / 25 °C)
Solubility(ies) Water solubility	:	partly soluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 20.5 mm2/s (77 °F / 25 °C)
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Volatile organic compounds	:	0 g/l

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(VOC) content

SikaFix® HH LV 0 g/l SikaFix® HH LV + SikaFix® HH Accelerator 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	:	No data available
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.			
<u>Components:</u>			
Diphenylmethanediisocyan	ate, isomeres and homologues:		
Acute oral toxicity	: LD50 Oral (Rat): > 10,000 mg/kg		
Acute inhalation toxicity	: LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment Assessment: The component/mixture is moderately toxic after short term inhalation.		
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 9,400 mg/kg		
4,4'-methylenediphenyl diis	4,4'-methylenediphenyl diisocyanate:		
Acute oral toxicity	: LD50 Oral (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401		
Acute inhalation toxicity	: LC50: 1.5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Expert judgment		

Dibutyltin dilaurate:

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Acute oral toxicity LD50 Oral (Rat): 2,071 mg/kg : Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye irritation Causes serious eye irritation. 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 mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information. IARC Not applicable **OSHA** Not applicable

NTP Not applicable

Reproductive toxicity

May damage fertility or the unborn child.

STOT-single exposure

May cause respiratory irritation.

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:

Diphenylmethanediisocyanate, isomeres and homologues:

Toxicity to fish	:	LC50 (Brachydanio rerio (zebrafish)): > 1,000 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 1,640 mg/l

Dibutyltin dilaurate:

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Toxicity to fish	:	LC50 (Fish): 3.1 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia): 1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 1 - 10 mg/l Exposure time: 72 h
Persistence and degradabilit No data available	ţ	
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- 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



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

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)
4,4'-methylenediphenyl diisocyanate	101-68-8	5000

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

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards	Respiratory or ski Reproductive toxi Specific target or Skin corrosion or	city gan toxicity (single or	repeated exposure)
SARA 313	: The following components are subject to reporting levels e tablished by SARA Title III, Section 313:		
	Diphenylme- thanediisocya- nate, isomeres and homologues	9016-87-9	>= 20 - < 30 %
	4,4'- methylenediphe- nyl diisocyanate	101-68-8	>= 20 - < 30 %

Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61): 4,4'-methylenediphenyl 101-68-8 >= 20 - < 30 % diisocyanate

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA P0 / C	:	Ceiling limit

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OSHA Z-1 / C : Ceiling

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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