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SECTION 1. IDENTIFICATION

Product name	:	Sikalastic [®] -644 Lo-VOC
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)					
Flammable liquids	:	Category 3			
Acute toxicity (Inhalation)	:	Category 4			
Skin irritation	:	Category 2			
Eye irritation	:	Category 2A			
Respiratory sensitization	:	Category 1			
Skin sensitization	:	Category 1			
Reproductive toxicity	:	Category 2			
GHS label elements Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	H226 Flammable liquid and vapor.			
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	 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. H361 Suspected of damaging fertility or the unborn child.
Precautionary Statements :	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P261 Avoid breathing 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: P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. 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. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
	Storage: P403 + P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. 2 / 15

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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)
4-chloro-α,α,α-trifluorotoluene	98-56-6	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1B; H317 STOT SE 3; H335	>= 10 - < 20
Hardener MI (Isopho- ronedi(morpholinoaldimine))	1217271-02-7	Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Skin Sens. 1; H317	>= 5 - < 10
propylene carbonate	108-32-7	Eye Irrit. 2A; H319	>= 5 - < 10
barium sulfate	7727-43-7		>= 1 - < 5
3-isocyanatomethyl-3,5,5- trimethylcyclohexyl isocyanate	4098-71-9	Acute Tox. 1; H330 Skin Corr. 1C; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1; H317 STOT SE 3; H335	>= 0.1 - < 1
Pentamethyl piperidylsebacate	41556-26-7	Skin Sens. 1A; H317 Repr. 2; H361	>= 0.1 - < 1
methyl 1,2,2,6,6-pentamethyl-4- piperidyl sebacate	82919-37-7	Skin Sens. 1A; H317 Repr. 2; H361	>= 0.1 - < 1
4,5-dichloro-2-octyl-2H-isothiazol-3- one (DCOIT)	64359-81-5	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 0.1 - < 1
Salicylic acid, o-hydroxybenzoic acid		Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361	>= 0.1 - < 1

Actual concentration is withheld as a trade secret

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SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area.

Consult a physician.

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		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.
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. Suspected of damaging fertility or the unborn child.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	Water High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire.
Further information	:	Use water spray to cool unopened containers.



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	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- : tive equipment and emer- gency procedures	Use personal protective equipment. Remove all sources of ignition. Deny access to unprotected persons. Beware of vapors accumulating to form explosive concentra- tions. Vapors can accumulate in low areas.
Environmental precautions :	Prevent product from entering drains. 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	Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Take precautionary measures against electrostatic discharg- es.
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. Take precautionary measures against static discharge. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Follow standard hygiene measures when handling chemical

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	products. Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of in- gress for odors and/or vapors into the building/structure during product application and cure.
	 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. Take precautionary measures against static discharge. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).
	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
barium sulfate	7727-43-7	TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m3	OSHA Z-1

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		TWA (Total dust)	10 mg/m3	OSHA P0
		TWA (respir- able dust fraction)	5 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

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 equipm	ent	
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 nec- essary.
Eye protection	:	Safety eyewear complying with an approved standard should 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.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	viscous liquid
Color	:	various
Odor	:	solvent
Odor Threshold	:	No data available
рН	:	Not applicable
Melting point/range / Freezing	:	No data available
point Boiling point/boiling range	:	No data available
Flash point	:	ca. 138 °F / 59 °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	:	7.066066 hpa
Relative vapor density	:	No data available
Density	:	ca. 1.41 g/cm3 (74.7 °F / 23.7 °C)
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Autoignition temperature	:	305 °C
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
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Volatile organic compounds : 15 g/l (VOC) content

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. Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
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>			
4-chloro-α,α,α-trifluorotoluene	e:		
Acute oral toxicity :	LD50 Oral (Rat): > 13,000 mg/kg		
Hardener MI (Isophoronedi(me	orpholinoaldimine)):		
Acute oral toxicity :	LD50 Oral (Rat): > 2,001 mg/kg		
3-isocyanatomethyl-3,5,5-trim Acute oral toxicity :	ethylcyclohexyl isocyanate: LD50 Oral (Rat): 4,814 mg/kg		
Acute inhalation toxicity :	LC50 (Rat): 0.031 mg/l Exposure time: 4 h Test atmosphere: dust/mist		
Acute dermal toxicity :	LD50 Dermal (Rat): > 7,000 mg/kg		
4,5-dichloro-2-octyl-2H-isothiazol-3-one (DCOIT):			
Acute oral toxicity :	Acute toxicity estimate: 567 mg/kg Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008		
Acute inhalation toxicity :	Acute toxicity estimate: 0.16 mg/l Test atmosphere: dust/mist Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008		
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Salicylic acid,				
Acute oral toxic	city	: LD50 Oral (Rat): 891 mg/kg		
Acute dermal to	oxicity	: LD50 Dermal (Rat): > 2,000 mg	g/kg	
Skin corrosion Causes skin irr <u>Components:</u>				
Hardener MI (I	lsophoronedi(I	(morpholinoaldimine)):		
Method Result		Regulation (EC) No. 440/2008,Skin irritation	Annex, B.46	
Serious eye da Causes serious				
<u>Components:</u>				
Hardener MI (I	lsophoronedi(I	(morpholinoaldimine)):		
Result Method		: Eye irritation : OECD Test Guideline 405		
Respiratory or	r skin sensitiza	zation		
Skin sensitiza May cause an a		eaction.		
Respiratory sensitization				
May cause allergy or asthma symptoms or breathing difficulties if inhaled.				
Components:				
Hardener MI (I	lsophoronedi(ı	(morpholinoaldimine)):		
Method Result		 Regulation (EC) No. 440/2008, May cause sensitization by skir 		
Germ cell mut	• •	able information.		
Carcinogenici				
•	-	able information.		
IARC		ossibly carcinogenic to humans α-trifluorotoluene	98-56-6	
	Group 2B: Po	ssibly carcinogenic to humans kide (> 10 μm)	13463-67-7	
OSHA	Not applicable	e		
NTP	Not applicable	e		

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Reproductive toxicity

Suspected of damaging fertility or the unborn child.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

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

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks

: Titanium dioxide (13463-67-7)

In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have shown to cause an increase in lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. The potential for these adverse health effects appears to be closely related to the particle size and the amount of the exposed surface area that comes into contact with the lung. However, tests with other laboratory animals such as mice and hamsters, indicate that rats are significantly more susceptible to the pulmonary overload and inflammation that causes lung cancer. Epidemiological studies do not suggest an increased risk of cancer in humans from occupational exposure to titanium dioxide. Titanium dioxide has been characterized by IARC as possibly carcinogenic to humans (Group 2B) through inhalation (not ingestion). It has not been characterized as a potential carcinogen by either NTP or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

4-chloro- α , α , α -trifluorotoluene:

Toxicity to fish :	LC50 (Brachydanio rerio (zebrafish)): 3 mg/l Exposure time: 96 h		
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 2 mg/l Exposure time: 48 h		
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): > 0.41 mg/l Exposure time: 72 h		
Hardener MI (Isophoronedi(morpholinoaldimine)):			

Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea)): 40.2 mg/l
aquatic invertebrates		Exposure time: 48 h

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	NOEC (Daphnia magna (Water flea)): 17.1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): 89 mg/l Exposure time: 72 h
4,5-dichloro-2-octyl-2H-isothia	zol-3-one (DCOIT):
Toxicity to fish :	
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. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. May be harmful to the environment if released in large quanti- ties. Water polluting material.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	Disposal of this product, solutions and any by-product at all times comply with the requirements of environm protection and waste disposal legislation and any registron local authority requirements.	ental
Contaminated packaging	Empty containers should be taken to an approved wa dling site for recycling or disposal.	ste han-

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR UN/ID No. Proper shipping name	: UN 1263 : Paint related material
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Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passen- ger aircraft)	:	(4-chloro-alpha,alpha,alpha-trifluorotoluene) 3 III Flammable Liquids 366 355
IMDG-Code UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant	:	UN 1263 PAINT RELATED MATERIAL (4-chloro-alpha,alpha,alpha-trifluorotoluene) 3 III 3 F-E, <u>S-E</u> yes
Domestic regulation		
49 CFR UN/ID/NA number Proper shipping name Class Packing group Labels ERG Code Marine pollutant	•	UN 1263 Paint related material 3 III FLAMMABLE LIQUID 128 no

DOT: As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated. IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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.
TSCA Continued	:	This product contains a substance regulated by EPA under a TSCA Significant New Use Rule (SNUR). Information about this SNUR can be found at 40 CFR 721.10774. In addition, because this substance is subject to a SNUR, it is also subject to export notification under TSCA Section 12(b).

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

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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	:	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Respiratory or skin sensitization Reproductive toxicity Skin corrosion or irritation Serious eye damage or eye irritation
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop. 65

MARNING: This product can expose you to chemicals including 4-chloro-α,α,α-trifluorotoluene, which is known to the State of California to cause cancer, and benzene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

reporting levels established by SARA Title III, Section 313.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH OSHA P0		USA. ACGIH Threshold Limit Values (TLV) 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 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average

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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All sales of Sika products are subject to its current terms and conditions of sale available at www.sikausa.com or 201-933-8800.

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