



# MATERIAL SAFETY DATA SHEET

## Sikaflex Primer 429/202

### HMIS

HEALTH	*3
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTION	H

### 1. Product And Company Identification

#### Supplier

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Manufacturer

Sika Corporation  
201 Polito Ave  
Lyndhurst, NJ 07071

Company Contact: EHS Department  
Telephone Number: 201-933-8800  
FAX Number: 201-933-9379  
Web Site: www.sikausa.com

#### Supplier Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

#### Manufacturer Emergency Contacts & Phone Number

CHEMTREC: 800-424-9300  
INTERNATIONAL: 703-527-3887

Issue Date: 04/18/2005

Product Name: Sikaflex Primer 429/202  
CAS Number: Not Established  
Chemical Family: Polyurethane  
MSDS Number: 3582  
Product Code: 0429540

### 2. Composition/Information On Ingredients

Ingredient Name	CAS Number		Percent Of Total Weight
AROMATIC POLYISOCYANATE	Not Establis		
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6		
TOLUENE DIISOCYANATE (MIXED ISOMERS)	26471-62-5	<=	0.5
XYLENE (MIXED ISOMERS)	1330-20-7		20 - 30

### 3. Hazards Identification

#### Eye Hazards

LIQUID, AEROSOLS OR VAPORS ARE SEVERELY IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING. IF LEFT UNTREATED, CORNEAL DAMAGE CAN OCCUR AND INJURY IS SLOW TO HEAL. HOWEVE, DAMAGE IS USUALLY REVERSIBLE.

#### Skin Hazards

MAY CAUSE A REVERSIBLE INFLAMMATORY EFFECT ON SKIN OR TISSUE AT THE SITE OF CONTACT. CAUSES AN ALLERGIC SENSITIZATION IN A SUBSTANTIAL PROPORTION OF HUMANS OR ANIMALS IN

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### 3. Hazards Identification - Continued

#### Skin Hazards - Continued

NORMAL TISSUE AFTER REPEATED EXPOSURES. MAY CAUSE DERMATITIS(SKIN REDNESS, DRYNESS, SCALING, ETC) FROM REPEATED OR PROLONGED CONTACT.

#### Ingestion Hazards

MAY CAUSE EFFECTS TO THE GI TRACT, USUALLY RESULTING FROM INGESTION OF THE MATERIALS, SUCH AS IRRITATION, NAUSEA, GI DISORDERS, ULCERATION, DIARRHEA OR CONSTIPATION. VOMITING MAY CAUSE ASPIRATION RESULTING IN CHEMICAL PNEUMONITIS.

#### Inhalation Hazards

MAY CAUSE EFFECTS ON MUCOUS MEMBRANE TISSUE, SUCH AS INFLAMMATION, IRRITATION, HYPERPLASIA OR CHANGE IN CILIARY ACTIVITY. CAUSES AN ALLERGIC SENSITIZATION IN A SUBSTANTIAL PROPORTION OF HUMANS OR ANIMALS IN NORMAL TISSUE AFTER REPEATED EXPOSURES. MAY CAUSE A REVERSIBLE INFLAMMATORY EFFECT ON THE UPPER RESPIRATORY SYSTEM. MAY CAUSE EFFECTS SUCH AS ANESTHETIC EFFECTS, DROWSINESS, DIZZINESS, DECREASE IN MOTOR FUNCTIONS, CONVULSIONS, TREMORS, NARCOSIS OR BEHAVIORAL CHANGES.

### 4. First Aid Measures

#### Eye

In case of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

#### Skin

In case of contact, immediately flush skin with soap and plenty of water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

#### Ingestion

DO NOT INDUCE VOMITING. DILUTE WITH WATER. CONSULT PHYSICIAN.

#### Inhalation

REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, INSTITUTE ARTIFICIAL RESPIRATION. ASTHMATIC-TYPE SYMPTOMS MAY DEVELOP AND MAY BE IMMEDIATE OR DELAYED UP TO SEVERAL HOURS. CONSULT WITH PHYSICIAN.

### 5. Fire Fighting Measures

**Flash Point:** 86 °F

**Flash Point Method:** ABEL-PENSKY CLOSED CUP

**Autoignition Point:** N/AV °F

**Flammability Class:** FLM

**Lower Explosive Limit:** 1.0

**Upper Explosive Limit:** 7.0

#### Fire And Explosion Hazards

IRRITATING AND/OR TOXIC GASES AND AEROSOLS FROM THE DECOMPOSITION/ COMBUSTION PRODUCTS MAY BE PRESENT. CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR BURST WHEN CONTAMINATED WITH WATER. SOLVENT VAPORS MAY BE HEAVIER THAN AIR. UNDER CONDITIONS OF STAGNANT AIR, VAPORS MAY BUILD UP AND TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE WHICH MAY RESULT IN A FLASH BACK TO THE SOURCE OF THE VAPORS.

#### Extinguishing Media

DRY CHEMICAL/CARBON DIOXIDE/WATER SPRAY. CAUTION: REACTION BETWEEN WATER AND HOT TDI CAN BE VIGOROUS.

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### 5. Fire Fighting Measures - Continued

#### Fire Fighting Instructions

WEAR NIOSH/MSA APPROVED SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. NO SKIN SURFACE SHOULD BE EXPOSED.

### 6. Accidental Release Measures

WEAR APPROPRIATE PROTECTIVE EQUIPMENT. CONTAIN SPILL AND COLLECT WITH ABSORBENT MATERIAL, POUR LIQUID DECONTAMINANT OVER SPILLAGE AND ALLOW TO REACT FOR AT LEAST 10 MINUTES. USE NON-SPARKING TOOLS TO SHOVEL INTO OPEN CONTAINERS AND ADD FURTHER AMOUNTS OF DECONTAMINATION SOLUTION. REMOVE CONTAINERS TO SAFE PLACE AND COVER LOOSELY. WASH DOWN AREA WITH LIQUID DECONTAMINANT AND FLUSH SPILL AREA WITH WATER. VENTILATE AREA. ELIMINATE SOURCES OF IGNITION. AVOID CONTACT.  
DECONTAMINATION SOLUTIONS: AMMONIUM HYDROXIDE (0-10%), DETERGENT (2-5%) AND BALANCE WATER; OR SOLUTION OF UNION CARBIDE'S TERGITOL TMN-10 (20%) AND WATER (80%).

### 7. Handling And Storage

#### Handling And Storage Precautions

STORE IN A COOL DRY AREA AWAY FROM HEAT, SPARKS AND FLAMES. KEEP CONTAINERS TIGHTLY CLOSED. GROUND CONTAINERS DURING STORAGE AND TRANSFER OPERATIONS. STORAGE TEMPERATURE MIN. 32F - MAX 122F.  
SPECIAL SENSITIVITY: HEAT, LIGHT, MOISTURE: IF CONTAINER IS EXPOSED TO HIGH HEAT

#### Work/Hygienic Practices

WASH THOROUGHLY AFTER USING PRODUCT.

### 8. Exposure Controls/Personal Protection

#### Engineering Controls

Use of a system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual for Recommended Practices, most recent edition, for details. When appropriate, use explosion-proof equipment.

#### Eye/Face Protection

Safety glasses with side shields or goggles.

#### Skin Protection

AVOID SKIN CONTACT. WEAR LONG SLEEVE SHIRT AND LONG PANTS. CHEMICAL RESISTANT RUBBER OR PLASTIC GLOVES.

#### Respiratory Protection

A respirator protection program that meets 29 CFR 1910.134 requirement must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.

#### Other/General Protection

MEDICAL SUPERVISION OF ALL EMPLOYEES WHO HANDLE OR COME IN CONTACT WITH TDI IS RECOMMENDED. THIS SHOULD INCLUDE PREEMPLOYMENT AND PERIODIC MEDICAL EXAMINATIONS WITH RESPIRATORY FUNCTION TESTS.  
MONITORING: TDI, POLYISOCYANATE AND SOLVENT EXPOSURE LEVELS MUST BE MONITORED BY ACCEPTED MONITORING TECHNIQUES TO ENSURE THAT THE TLVS ARE NOT EXCEEDED.

#### Ingredient(s) - Exposure Limits

TOLUENE DIISOCYANATE (MIXED ISOMERS)

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### 8. Exposure Controls/Personal Protection - Continued

#### **Ingredient(s) - Exposure Limits - Continued**

2, 4-Toluene Diisocyanate (TDI) CAS # 584-84-9

OSHA CEILING: 0.02 ppm

ACGIH TLV-TWA: 0.005 ppm

ACGIH TLV-STEL: 0.02 ppm

2, 6-Toluene Diisocyanate (TDI) CAS # 91-08-7

OSHA: Not Established

ACGIH: Not Established

XYLENE (MIXED ISOMERS)

OSHA TLV-TWA: 100 ppm

ACGIH TLV-TWA: 100 ppm

ACGIH TLV-STEL: 150 ppm

### 9. Physical And Chemical Properties

#### **Appearance**

CLEAR YELLOW LIQUID

#### **Odor**

SOLVENT ODOR

**Chemical Type:** Mixture

**Physical State:** Liquid

**Melting Point:** -22 °F

**Boiling Point:** 280-300 °F

**Specific Gravity:** 1.07

**Percent VOCs:** 46.0%

**Packing Density:** 8.9#/gal

**Vapor Pressure:** N/AV

**Vapor Density:** >AIR

**Solubility:** INSOLUBLE

**Evaporation Rate:** SLOWER THAN ETHER

VOC Content: 491.5 gram / liter

### 10. Stability And Reactivity

**Stability:** STABLE

**Hazardous Polymerization:** WILL NOT OCCUR

#### **Conditions To Avoid (Stability)**

NONE KNOWN

#### **Incompatible Materials**

WATER, ALCOHOLS, AMINES, STRONG BASES AND OXIDIZING MATERIALS

THIS PRODUCT CONTAINS TRIMETHYLOL PROPANE AND SHOULD NOT BE COMBINED WITH PHOSPHORUS CONTAINING MATERIALS BECAUSE HIGHLY TOXIC FUMES CAN BE EMITTED IN A FIRE SITUATION.

#### **Hazardous Decomposition Products**

BY FIRE: CO<sub>2</sub>, CO, OXIDES OF NITROGEN, HCN, TDI

#### **Conditions To Avoid (Polymerization)**

NONE KNOWN

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### 11. Toxicological Information

#### Miscellaneous Toxicological Information

NTP: THIS PRODUCT CONTAINS LESS THAN 0.5% TDI. BASED ON STUDY, NTP LISTS TDI AS A SUBSTANCE THAT MAY REASONABLY BE ANTICIPATED TO BE A CARCINOGEN IN ITS FOURTH ANNUAL REPORT ON CARCINOGENS.

IARC: IARC HAS ANNOUNCED THAT IT WILL LIST TDI AS A SUBSTANCE FOR WHICH THERE IS SUFFICIENT EVIDENCE FOR ITS CARCINOGENICITY IN EXPERIMENTAL ANIMALS BUT INADEQUATE EVIDENCE FOR THE CARCINOGENICITY OF TDI TO HUMANS.

#### Conditions Aggravated By Exposure

ASTHMA TYPE CONDITIONS, CHRONIC BRONCHITIS AND OTHER CHRONIC RESPIRATORY CONDITIONS. RECURRENT SKIN ECZEMA. PRESENSITIZATION TO PRODUCT. MAY AFFECT THE RENAL SYSTEM, INCLUDING KIDNEY DAMAGE, EDEMA, PROTEINURIA, OR OTHER NEPHROTOXICITY. MAY CAUSE EFFECTS TO THE HEPATIC SYSTEM, SUCH AS JAUNDICE, LIVER ENLARGEMENT, LIVER DAMAGE, OR OTHER HEPATOXICITY.

#### Ingredient(s) - Carcinogenicity

TOLUENE DIISOCYANATE (MIXED ISOMERS)  
Listed In The IARC Monographs

### 12. Ecological Information

No Data Available...

### 13. Disposal Considerations

Dispose in accordance with applicable federal, state and local government regulations. Waste generators must determine whether a discarded material is classified as a hazardous waste. USEPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

#### RCRA Information

Waste solutions may meet the RCRA Ignitable characteristic.

### 14. Transport Information

#### Proper Shipping Name

Resin Solution, Flammable

#### Hazard Class

3, PG III

#### DOT Identification Number

UN1866

#### DOT Shipping Label

FLAMMABLE

### 15. Regulatory Information

#### U.S. Regulatory Information

All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

#### SARA Hazard Classes

Acute Health Hazard  
Chronic Health Hazard  
Fire Hazard

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### 15. Regulatory Information - Continued

#### **SARA Hazard Classes - Continued**

#### **SARA Title III - Section 313 Supplier Notification**

This product contains the following toxic chemicals that are subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986 and of 40 CFR 372.

TOLUENE DIISOCYANATE (MIXED ISOMERS) (26471-62-5) <=0.5 %

XYLENE (MIXED ISOMERS) (1330-20-7) 20 - 30 %

This information must be included on all MSDSs that are copied and distributed for this material.

#### **Ingredient(s) - U.S. Regulatory Information**

TOLUENE DIISOCYANATE (MIXED ISOMERS)

SARA Title III - EPA Part 355 Extremely Hazardous Substance

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

SARA - Acute Health Hazard

SARA - Chronic Health Hazard

XYLENE (MIXED ISOMERS)

SARA Title III - Section 313 Form "R"/TRI Reportable Chemical

SARA - Acute Health Hazard

SARA - Chronic Health Hazard

SARA - Fire Hazard

#### **State Regulations**

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

#### **Ingredient(s) - State Regulations**

TOLUENE DIISOCYANATE (MIXED ISOMERS)

New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

New Jersey - TCPA Extraordinarily Hazardous Substance

XYLENE (MIXED ISOMERS)

New Jersey - Workplace Hazard

New Jersey - Environmental Hazard

New Jersey - Special Hazard

Pennsylvania - Workplace Hazard

Pennsylvania - Environmental Hazard

Massachusetts - Hazardous Substance

New York City - Hazardous Substance

### 16. Other Information

#### **HMIS Rating**

Health: \*3

Fire: 3

Reactivity: 0

PPE: H

#### **Revision/Preparer Information**

MSDS Preparer: EHS Department

This MSDS Supersedes A Previous MSDS Dated: 08/28/2003

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### **Disclaimer**

The data in this Material Safety Data Sheet relates only to the specific material herein and does not relate to use in combination with any other material or in any process. The information set forth herein is based on technical data that Sika believes to be reliable as of the date hereof. Since conditions of use are outside our control, we make no warranties, express or implied and assume no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

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