



Product Name: XS-327 (B)  
Revision Date 06/18/12

## MATERIAL SAFETY DATA SHEET

### SECTION 1 Product and Company Identification

#### Product

Product Name: XS-327 (part "B", catalyst)  
Product Description: Finishing aid  
Intended Use: Precast sealer

#### Company

Manufacturer: SureCrete Design Products, Inc.  
15246 Citrus Country Drive  
Dade City, FL 33523  
USA

Contact: 352-567-7973 (telephone general)  
800-424-9300 (telephone emergency – Chemtrec)  
813-469-1408 (telephone 24 hour emergency)  
813-469-1419 (telephone 24 hour emergency)  
[info@surecretedesign.com](mailto:info@surecretedesign.com) (e-mail)  
352-521-0973 (facsimile)

### SECTION 2 Hazards Identification

#### Most Important Hazards

Health Hazards:  
Inhalation – respiratory sensitizer / may cause permanent lung damage  
Irritating to eyes and skin

### SECTION 3 Composition / Information on Ingredients

This material is regulated as a mixture

Ingredient	CAS #	EC#	% (by weight)
Homopolymer of Hexamethylene Diisocyanate	28182-81-2		<90%
Hydrophilic Aliphatic Polyisocyanate based on Hexamethylene Diisocyanate	NA	NE	<28%

### SECTION 4 First Aid Measures

**Eye Contact:** Rinse with running water for 15 mins. Hold eyelids apart while irrigating.

**Skin Contact:** Immediately remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash clothing before reuse.



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**Inhalation:** Move to fresh air. Administer artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical attention immediately.

**Ingestion:** Get medical attention immediately. Do not induce vomiting.

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### SECTION 5 Fire Fighting Measures

**Extinguishing Media:** Foam, CO<sub>2</sub>, Dry chemical, water spray for large fires

**Fire Fighting Procedures:** Cool containers to prevent pressure buildup and possible explosion when exposed to extreme heat. Full protective equipment, including self-contained breathing apparatus required. During a fire isocyanate vapors and other highly toxic gases may be generated.

**Unusual Fire and Explosion Hazard:** Closed containers can explode due to buildup of pressure when exposed to extreme heat. Use large volumes of water for large fires from safe distance to cool containers and avoid rupture.

**Hazardous Combustion Products:** Smoke, fumes, vapors, oxides of carbon

#### Flammability Properties

**Flash Point (Method):** > 185°C / 365°F

**Flammable Limits (Approximate volume % in air):** NE

**Autoignition Temperature:** not determined

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### SECTION 6 Accidental Release Measures

**Personal precautions:** Evacuate personnel to safe areas. Ventilate area.

**Environmental precautions:** Prevent entry into waterways.

**Methods for clean-up:** Small spills may be cleaned up with paper toweling and disposed into approved container. Larger spills absorb onto sand, vermiculite, or any other inert, non-combustible material. Scoop into open head containers for later appropriate disposal. Allow containers to vent for 72 hours.

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### SECTION 7 Handling and Storage

**Handling:** Avoid inhalation and contact with eyes, skin, and clothing. Avoid handling of vapor or mist. Do not permit eating, drinking, smoking near material. Remove all potential sources of ignition. Wear respiratory protection if material is heated, or in concentration above threshold limits. Spraying of product is never recommended.

**Storage:** Keep containers tightly closed, in dry, cool, well ventilated place. Keep out of reach of children.

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### SECTION 8 Exposure Control / Personal Protection

**Exposure limit values:** TLV –ACGIH .5 mg/m<sup>3</sup> (TWA), 1.0 mg/m<sup>3</sup> (STEL)

**Occupational exposure controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits.

*Respiratory protection:* Wear suitable NIOSH approved positive pressure or continuous flow-type respirator when ventilation is inadequate



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*Hand protection:* Chemically compatible gloves

*Eye protection:* Safety glasses with side shields, goggles, or full face shield.

*Skin protection:* Minimize skin contact with appropriate long-sleeved clothing

*Hygiene measures:* Observe good industrial hygienic practices. Frequently launder or discard proactive clothing, equipment.

**Medical Surveillance:** All individuals that are to work with product must undergo medical pre-placement screening. No individual may have a history of pulmonary problems: adult asthma, hay fever. Any worker that is diagnosed with sensitization to isocyanate must be excluded from any exposure.

**Environmental exposure controls:** Emissions from work process equipment should be checked against requirements of appropriate environmental protection legislation. In some cases alteration to work process equipment may be necessary to reduce emissions to acceptable levels.

## SECTION 9 Physical and Chemical Properties

### General

Physical state: liquid

Color: light yellow

Odor: slight

### Safety Data

pH: not available

Boiling point: decomposition

Flash point: 185°C / 365°F

Flammable limits (approximate volume % in air): NE

Vapor pressure (mm Hg.):  $5.2 \times 10^{-9}$  mm/Hg @ 20°C / 68°F

Water solubility: insoluble

Specific gravity (water = 1): 1.5

## SECTION 10 Stability and Reactivity

**Stability:** Stable under normal conditions

**Conditions to avoid:** sources of ignition, freezing

**Materials to avoid:** water, amine, strong bases, alcohols, copper alloys

**Hazardous decomposition products:** thermal decomposition may create oxides of carbon and nitrogen, dense black smoke

**Hazardous polymerization:** may occur with contact with moisture or temperatures above 350°F (177°C)

## SECTION 11 Toxicological Information

### Acute Toxicity

Route of Exposure	Conclusion / Remarks
Inhalation	
Acute Toxicity : LC50 ~400 mg/m <sup>3</sup> , 4 hours (rat)	



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RD50: 20 mg/m <sup>3</sup> , 3 hours	Elevated temperatures or mechanical action may form vapors, mist, or fumes that may be irritating to the eyes, nose, throat, or lungs.
<i>Ingestion</i>	
Acute Toxicity: LD50 > 5000 mg/kg (rabbit)	May cause irritation. Abdominal pain, nausea, vomiting, and diarrhea
<i>Skin</i>	
Irritation: data available	Low toxicity , rabbit slightly irritating
<i>Eye</i>	
Irritation: data available	Low toxicity , rabbit slightly irritating

### **Chronic / Other Effects**

In vitro and in vitro mutagenicity tests were negative. Not listed as carcinogenic by IARC, NTP, or OSHA.

### **SECTION 12 Ecological Information**

**Ecotoxicity:** Acute and prolonged toxicity to aquatic organism

LC0: >100 mg/l Zebra fish, 96 hours

EC0: >100 mg/l water flea, 48 hours

EC50: >1000 mg/l green algae, 72 hours

EC50: >1000 mg/l activated sludge microorganisms, 3 hours

**Persistence and degradability:** not readily biodegradable

### **SECTION 13 Disposal Considerations**

**Methods of disposal:** This material may be safely incinerated or landfilled in accordance with federal, state, and local environmental control regulations. Empty containers that may contain product residue do not heat or cut with torch.

### **Section 14 Transport Information**

#### **International transport regulations**

This product is not regulated for transport unless in a quantity heavier than 99999 lbs. (45359 kg)

<i>Regulatory Information</i>	<i>UN number</i>	<i>Proper shipping name</i>	<i>Class</i>	<i>Packing group</i>	<i>Additional information</i>	<i>Marine pollutant</i>
ADR/RID class					none	
IMDG class					none	
IATA class					none	

#### **National Fire Protection Association Hazard Ratings (NFPA)**

*Health hazard* 2

*Flammability* 1

*Stability* 1



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## SECTION 15 Regulatory Information

### TSCA (USA - Toxic Substance Control Act)

All components of this product are listed on the U.S. Toxic Substances Control Act Inventory (TSCA Inventory) or are exempted from listing because of low volume or polymer exemption has been granted with 40 CFR 723.50

### SARA Title III ( USA – Superfund Amendments and Reauthorization Act)

311/312 Hazard categories  
Acute and Chronic Health Hazard  
313 Reportable Ingredients:  
None

### CERCLA (USA – Comprehensive Response Compensation and Liability Act)

None

### California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

There are no chemicals present known to the state of California to cause cancer or reproductive toxicity.

### CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Cotrolled Products Regulations. WHMIS Classification :  
D2B

### IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in section 3.

### DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

Components of this product identified by CAS number are listed on the DSL or NDSL, or otherwise are in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as hazardous are listed in Section 3 unless otherwise indicated.

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## SECTION 16 Other Information

### National Paint and Coating Hazardous Materials Identification System - HMIS (R)

Health hazard rating – 2  
Flammability rating – 1  
Instability rating – 1

**Recommended restriction:** for use by trained professionals, having read the complete MSDS

### Key Legend:

ACGIH – American Conference of Governmental Industrial Hygienists  
OSHA – Occupational Safety and Health Administration  
NTP – National Toxicology Program  
IARC – International Agency for Research on Cancer  
R – Risk Phrases



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## S – Safety Phrases

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*To the best of our knowledge the information contained here is accurate. However, neither the above named manufacturer nor any of its distributors assumes any liability whatsoever for the accuracy or the completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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