

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek® Chemical Resistant Hardener, CRH405 Chemtrec  
**GENERIC NAME:** Epoxy Hardener 24 Hour Emergency Number 1-800-424-9300  
Information Number: 1-800-666-6216  
**DISTRIBUTOR:** LSP Performance Resins  
 124 Speer Road  
 Chestertown, MD 21620  
 Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

**SECTION 2 Hazards Identification**

<b>Emergency Overview</b> <b>OSHA Hazardous</b> Target Organ Effect: Skin Sensitizer, Irritant Target Organs: Respiratory, eyes, Skin Physical Appearance: Viscous liquid Immediate Concerns: Skin Irritation		<b>Potential Health Effects</b> Skin: Will cause irritation and dermatitis, repeated overexposure will cause dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. Inhalation and Ingestion: Irritation to system
<b>Carcinogenicity:</b> Not listed by NTP Not Listed by IARC Not Listed by OSHA	<b>Reproductive Toxicity</b> Reproductive Effects : Not Available Teratogenic Effects: Not Available	<b>Signs and Symptoms of Overexposure:</b> Irritation of Skin  <b>Medical Conditions Aggravated:</b> Allergy, Skin Disorders

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**

Health		Environmental	Physical
Acute Toxicity, Oral	Category 5	Not Classified	Not Classified
Skin Irritant	Category 2		
Serious Eye Damage	Category 1		
Skin Sensitization	Category 1		

Pictogram:



**Signal Word** Danger

Hazard Statements	Precautionary Statements
H303 May be harmful if swallowed	P280 Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
H315 Causes skin irritation	
H317 May cause an allergic skin reaction	
H318 Causes serious eye damage	

**SECTION 3 Composition / Information on Ingredients**

Chemical Name	CAS	Wt%
Modified cycloaliphatic polyamines	Trade secret	
Benzyl alcohol	100-51-6	

**SECTION 4 First Aid Measures**

**EYE CONTACT:** Get medical attention immediately. Immediately flush eyes gently with large amounts of water, holding lids open for at least 20-30 minutes, retracting eyelids often. Check for, and remove contact lenses.

**SKIN CONTACT:** Get medical attention immediately. Flush contaminated skin with plenty of WATER. Do NOT wash with solvents. Wash contaminated clothing thoroughly with water before removing it or wear gloves. Continue to rinse for at least 10 minutes. May cause irritation and allergic reaction. Seek medical advice if irritation develops or persists.

**INHALATION:** Move exposed person to fresh air. Get medical attention immediately. If it is suspected that fumes are still present, the rescuer should wear an appropriate make of self contained breathing apparatus. Keep person warm and at rest. If not breathing or breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing air to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway

**INGESTION:** Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

**Advice to physicians:** Symptomatic and supportive therapy as needed. May aggravate skin conditions.

**SECTION 5 Fire Fighting Measures**

**Conditions of Flammability**

Not flammable or combustible

**Suitable Extinguishing Media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions – Carbon Oxides

**Fire Fighting Instructions**

Do not enter fire area without proper protection. Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent. See Section 10 - decomposition products possible. Fight fire from safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Use water spray/fog for cooling.

**SECTION 6 Accidental Release Measures**

**Personal Precautions**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

**Environmental Precautions**

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Notify authorities of any releases to sewers, soils, waterways or air.

**Methods and Materials for Containment and Cleaning Up**

Stop the leak if it can be done without risk. Move containers from the spill area. Prevent entry into sewers, water ways or soils. Contain and collect spillage with non-combustible, absorbent material such as sand, earth, vermiculite or diatomaceous earth. Place in container for disposal according to local regulations via a licensed waste disposal contractor. Contaminated absorbent materials may pose the same hazards as the spilled product. See section 1 for emergency contact information and section 13 for waste disposal.

**SECTION 7 Handling and Storage**

**Precautions for Safe Handling** Can cause skin and eye irritation and allergic skin reaction.

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Conditions for Safe Storage**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

**SECTION 8 Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES**

Hazardous Component	PEL	STEL	TLV	Other
Modified cycloaliphatic polyamines	NE	NE	NE	NE
Benzyl alcohol	NE	NE	NE	NE

**ENGINEERING CONTROLS** Use local exhaust ventilation to maintain airborne concentrations below exposure limits. Respiratory protection may be required in addition to general room ventilation.

**PERSONAL PROTECTIVE EQUIPMENT** Use a properly fitted, air-purifying or air supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards or the product and the safe working limits of the selected respirator.

**EYE PROTECTION** Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles or vapor. Contact lenses should not be worn.

**SKIN AND BODY PROTECTION** When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene or rubber. Use of barrier cream is recommended. Clean equipment thoroughly after each use. Discard contaminated leather shoes and canvas sneakers.

**OTHER HYGENIC PRACTICES** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

**OTHER WORK PRACTICES** Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

**SECTION 9 Physical and Chemical Properties**

Appearance	
Form	Liquid
Color	Light amber
pH	Not available
Melting/Freezing Temperature	40 C/ 104 F
Boiling Point	336 C/ 637 F
Flash Point	> 95 C/ 200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	<0.1 mm Hg
Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	>1.01
Evaporation Rate (Bac=1)	None
Odor	amine
Odor threshold	Not available

**SECTION 10 Stability and Reactivity**

**Chemical Stability**

Stable under recommended storage conditions

**Possibility of Hazardous Reactions**

No data available

**Conditions to Avoid**

Avoid strong acids, bases in bulk and elevated temperatures

**Materials to Avoid**

Reactive or incompatible with: acids, oxidizers, amines

**Hazardous Decomposition Products**

Decomposition products formed under fire conditions may include: Carbon oxides, Nitrogen oxides, Aldehydes.

**SECTION 11 Toxicological Information**

**Acute Toxicity**

Oral LD50	Rat > 4000 mg/kg.
Dermal LD50	Rabbit 20,000 mg/kg
Inhalation LC50	No data available

**Carcinogenicity**

IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

**Skin Corrosion/Irritation**

Skin	Irritant
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ACGIH: No component of this product presents at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH

**Serious Eye Damage/Eye Irritation**

Eye	Irritant
Eyes	Rabbit
Severe eye irritation – 24 H	

NTP: No component of this product presents at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

**Respiratory or Skin Sensitization**

May cause skin or respiratory sensitization

**Mutagenicity**

Mouse	Skin
Carcinogenic by RTECS Criteria	
liver, ovarian, thyroid	

**SECTION 12 Ecological Information**

**Aquatic Ecotoxicity**

No data available

**Biodegradability**

Persistent	Not readily biodegradable
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**Mobility in soil**

No data available

**SECTION 13 Disposal Considerations**

**Waste Disposal**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residuals. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**SECTION 14 Transport Information**

**DOT (US)**  
Not Regulated

**IMDG**  
Not Regulated

**TDG**  
Not Regulated

**SECTION 15 Regulatory Information**

**TSCA INVENTORY STATUS**  
All components are listed or exempt

**OSHA HAZARDS**

Skin Sensitizer	Irritant	
Corrosive Material		

  

<b>HMIS Classification</b>		<b>NFPA Rating</b>
Health Hazard;	3	3
Flammability	1	0
Physical Hazards	0	0

**SARA TITLE III: Section 311/312 Hazard Class**  
Acute Health Hazard, Chronic Health Hazard

**SARA TITLE III: Section 313 (40CFR370)**  
This product does not contain a chemical which is listed in Section 313 at or above the de minimus concentrations

**CERCLA Information (40CFR302.4)**  
This material contains no hazardous or extremely hazardous substances at or above the de minimus concentrations as defined by CERCLA or SARA Title III, and release is therefore not reportable.

**California Proposition 65 Information:**  
This product contains, no listed substances known to the state of California to cause cancer and/or reproductive toxicity.

**SECTION 16 Other Information**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources, which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

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