



<b>TYPE 2 Quartz Flooring System</b>		
<b>Proper Name</b>	<b>Use within System</b>	<b>Name on General MSDS List</b>
101 Resin (SR 101 and SH101)	Body matrix for Aggregate Build Coat(s)	SR101 and SH 101
TRP 354	Body Coat	CRH 405
Estes Quartz	Aggregates and System Color	Sand
200C A and 200 C B	Grout coat	200C A and 200 C B
UV13	Seal Coat	UV13

**SECTION 1 Product and Company Information**

<b>PRODUCT NAME:</b> SeamTek 200C A (Iso)	Chemtrec
<b>GENERIC NAME:</b> Aspartic Ester	24 Hour Emergency Number 1-800-424-9300
	Information Number 1- 920-803-1700
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**

Emergency Overview			
<b>OSHA Hazardous</b>			
Skin sensitizer, Skin, Eye, Respiratory Irritant, Digestive Tract Irritant			
<b>GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS</b>			
<b>Health</b>	<b>Environmental</b>	<b>Physical</b>	
Eye Irritation Respiratory Sensitization Skin Sensitization	Category 2A Category 1 Category 1	Not Classified	
Pictogram:			
 			
<b>Hazard Statements</b>		<b>Precautionary Statements</b>	
H317 May cause an allergic skin reaction H319 Causes serious eye irritation H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled		P261 Avoid breathing dust/fume/gas/mist/vapours/ spray. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/eye protection/face protection. P285 In case of inadequate ventilation wear respiratory protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs get medical advice/ attention. P337 + P311 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician P363 Wash contaminated clothing before reuse. P501 Dispose of containers in accordance with local/regional/national/international requirements.	

**SECTION 3 Composition / Information on Ingredients**

Chemical Name	CAS	Wt%
Hexane,1,6-diisocyanate, -Homopolymer	28182-81-2	100 %
Hexamethylene Diisocyanate (HDI)	822-06-0	< 0.5

**SECTION 4 First Aid Measures**

**Eyes Contact:** Immediately flush eyes gently with large amounts of water for at least 15 minutes. Retract eyelids often. Get prompt medical attention. Can cause pain, tearing, reddening, and swelling accompanied by a stinging sensation. Chronic exposure can cause corneal opacity.

**Skin Contact:** Thoroughly wash the exposed area with mild soap and water. Remove contaminated clothing and launder contaminated clothing before re-use. Seek medical attention if exposure symptoms develop.

May be harmful if absorbed through the skin. Symptoms of irritation may be reddening swelling, rash, scaling or blistering. May cause sensitization and allergic reaction.

**Ingestion:** If victim is conscious and alert, give 2 - 3 glasses of water to drink and induce vomiting by touching the back of the throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than the waist if vomiting occurs and the victim is conscious; give water to further dilute the chemical.

May be harmful if swallowed. Can cause irritation and possible corrosive action to the mouth, stomach tissue and digestive tract.

**Inhalation:** If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention immediately. May cause shortness of breath, headache, nausea, vomiting, respiratory tract irritation.

**Advise to physicians:** All treatment should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Exposure may aggravate asthma and other respiratory disorders (bronchitis, emphysema, and hyperactivity) skin allergies and eczema.

**SECTION 5 Fire Fighting Measures**

**Conditions of Flammability**

Product will burn under fire conditions. Under fire conditions, toxic, corrosive fumes are emitted including nitrogen and carbon oxides. Use water to cool tightly closed containers exposed to fire. Self contained breathing apparatus and full protective clothing is required when smoke or fumes are generated.

**Suitable extinguishing media**

Dry Chemical, CO2, Foam, **WATER IS NOT** recommended.

**Hazardous Decomposition Products**

Thermal decomposition may produce nitrogen oxides and 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. Use water spray/fog for cooling tightly sealed containers. Notify authorities if liquid enters sewer/public waters.

**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. Prevent runoff from entering drains, sewers, or streams. Dispose/report per regulatory requirements. See Section 1 for emergency contact information and Section 13 for waste disposal.

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

Cover spills and soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into disposal container. Pump free liquid into an appropriate closed container. Clean up spill area with a decontamination solution made up of 50% isopropanol, 45% water and 5% concentration ammonia solution (% by Weight). The solution should cover the area for at least one hour. Absorb with an inert absorbent. Collect washing for disposal. Dispose/report per regulatory requirements. **Do not** flush into drains.

**SECTION 7 Handling and Storage**

**Precautions for Safe Handling**

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 the vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

**Conditions for Safe Storage**

This material is stable under normal handling and storage conditions. Maximum storage temperature is < 40 C (104 F). Store in a dry, well ventilated area. Store, transfer and handle under a blanket of nitrogen. Before closing partially empty containers, blanket with dry nitrogen. Replace damaged gaskets.

Store in tightly closed containers. Store in original container. Recommended container material: aluminum, epoxy coated steel, stainless steel, plastic. Container material to avoid, copper, tin.

**SECTION 8 Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES**

Hazardous Component	PEL	STEL	TLV	Other
Hexane,1,6-diisocyanate, -Homopolymer	NE	NE	NE	
Hexamethylene Diisocyanate (HDI)	NE	NE	ACGIH 0.005 ppm	

**Engineering Controls**

Local exhaust ventilation may be required in addition to general room ventilation. Good industrial hygiene practice dictates that worker protection be achieved through ventilation whenever feasible.

**Respiratory Protections**

Where respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations. Full-face air purifying respirators are required in work environments where isocyanate airborne concentrations exceed the action level but are significantly lower than the IDLH provided that the cartridges are changed daily. Use combination HEPA Filter for the polyisocyanate aerosol and an organic vapor cartridge for the solvents used. Full face supplied air respirators (SAR) are required in work environments where isocyanate airborne concentrations have not been characterized or are expected to exhibit considerable and sudden variations such as in spray type application. Curing ovens must be ventilated to prevent emissions to the workplace.

**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, rubber or latex. Clean equipment thoroughly after each use.

**Other hygienic practices**

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

**OTHER WORK PRACTICES**

Precautions must be taken so that persons handling this product do not allow contact with eyes or skin. In spray operations protection must be afforded against exposure to both vapor and spray mists.

Use good personal hygiene practices. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is being used. Wash hands before eating, drinking, smoking or using toilet facilities. Wash exposed skin promptly to remove accidental splashes or contact with these materials. 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	Viscous Liquid
Color	Clear to Pale yellow
pH	Not available
Melting/Freezing Temperature	67 C (152 F)
Boiling Point	255 C (491 F)
Flash Point	170 C/ 338 F
Ignition Temperature	Not available
Autoignition Temperature	454 C (849 F)
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	0.001 mm Hg at 20 C
Vapor Density (air=1)	5.8 Air = 1
Specific Gravity (water=1 @39.2F)	1.13 at 20 C/68F
Evaporation Rate (Bac=1)	Not available
Odor	Odorless
Odor threshold	Not available

**SECTION 10 Stability and Reactivity**

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Stable under normal processing conditions.

**Conditions to Avoid**

Reacts violently with common materials including water, alcohols, bases and amines.

**Materials to Avoid**

Store away from water, alcohols, bases, and amines.

**Hazardous Decomposition Products**

Thermal decomposition may produce nitrogen oxides and carbon oxides

SECTION 11 Toxicological Information			
<b>Acute Toxicity</b> hexamethylene diisocyanate			
Oral LD50 – lethal concentration 50% of test species	Rat		> 5,000 mg/kg
Dermal LD50 – lethal concentration 50% of test species	Rabbit		> 2,000 mg/kg
Inhalation LD50 – lethal concentration 50% of test species	Rat		2.18 mg/l – 4 hr
<b>Skin Corrosion/Irritation</b>			
Skin	Rabbit		Slightly Irritating
<b>Serious Eye Damage/Eye Irritation</b>			
Eye	Rabbit		Mildly Irritating
<b>Respiratory or Skin Sensitization</b>			
Skin	Guinea Pig		Sensitizing
<b>Mutagenicity</b>			
No data available			
<b>Carcinogenicity</b>			
IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.			
ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.			
NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.			

SECTION 12 Ecological Information		
<b>Aquatic Ecotoxicity</b>	<b>Bioaccumulative potential</b>	<b>No data available</b>
No data available		
<b>Biodegradability</b>		
No data available		
<b>Mobility in soil</b>		
No data available		

SECTION 13 Disposal Considerations
<b>Waste Disposal</b>
When a decision is made to discard this material as supplied, it does not meet RCRA’s characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

SECTION 14 Transport Information
<b>DOT (US)</b>
Not regulated by DOT
<b>IMDG</b>
Not regulated by IMDG
<b>IATA</b>
Not regulated by IATA

**SECTION 15 Regulatory Information**

**TSCA INVENTORY STATUS**

All components are listed or exempt

**OSHA HAZARDS**

Skin Irritant, Skin Sensitizer, Eye Irritant, Respiratory Irritant, Digestive Tract Irritant

	<b>HMIS Classification</b>	<b>NFPA Rating</b>
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	1	1

**SARA TITLE III: Section 311/312 Hazard Class**

Hexamethylene diisocyanate	CERCLA/SARA RQ 100 lbs
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**SARA TITLE III: Section 313 (40CFR370)**

Hexamethylene diisocyanate	CERCLA/SARA RQ 100 lbs
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**CERCLA Information (40CFR302.4)**

This material contains Hexamethylene diisocyanate and releases in excess of CERCLA thresholds are reportable.

**California Proposition 65 Information:**

This product does not contain, or may contain substance(s) 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 SDS 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 SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. LSP Performance Resins assumes no responsibility for personal injury or property damage to vendees, such vendees or users assume all risks associated with the use of the material.

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek 200C B Clear Coat Chemtrec  
**GENERIC NAME:** Poly Resin 24 Hour Emergency Number 1-800-424-9300  
Information Number: 1- 920-803-1700

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**

Emergency Overview

**OSHA Hazardous**  
 Skin, Eye and Respiratory Irritant, Skin Sensitizer  
 Target Organs: Eyes, Skin, Digestive Tract, Respiratory Tract

Carcinogenicity: Not listed by NTP Not Listed by IARC Not Listed by OSHA	Reproductive Toxicity Reproductive Effects : Not Available Teratogenic Effects: No evidence of mutagenetic effects
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GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS			
Health		Environmental	Physical
Acute Toxicity	Category 5	Acute Aquatic Hazard	Category 3
Skin Irritant	Category 2		
Eye Irritation	Category 2A		
Skin Sensitizer	Category 1		
STOT (Respiratory)	Category 3		



Hazard Statements	Precautionary Statements
H315 May be harmful if swallowed	P261 Avoid breathing dust/fume/gas/mist/vapours/ spray. P264 Wash thoroughly after handling. P280 Wear protective gloves/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P333 + P313 If skin irritation or rash occurs: Get medical advice/attention. P363 Wash contaminated clothing before reuse. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of containers in accordance with local/regional/national/international requirements.
H315 Causes skin irritation	
H317 May cause an allergic skin reaction	
H319 Causes serious eye irritation	
H335 May Cause respiratory irritation	
H402 Harmful to aquatic life	

**SKIN** May cause irritation with symptoms of reddening and itching. Repeated exposure may cause allergic skin reaction with symptoms of reddening, itching swelling, and rash. May cause sensitization of susceptible persons.

**INGESTION** Ingestion is not a typical route of industrial exposure. May cause irritation. Symptoms include abdominal pain, nausea, vomiting and diarrhea.



**INHALATION**

Inhalation is unlikely due to low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation. Wear appropriate respiration equipment if vapor or mist is expected. Symptoms of irritation may include coughing, mucous production and shortness of breath. This product contains talc which is currently listed by OSHA as a respirable dust hazard with an exposure limits of 2 mg/m<sup>3</sup>.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

This material or its emissions may induce an allergic or sensitization reaction and thereby aggravate systemic disease. Exposure to dusts may aggravate breathing problems, colds and congestion.

**SECTION 3 Composition / Information on Ingredients**

Chemical Name	CAS	Wt%
Aspartic Ester (s)	Proprietary	50 - 70 %
Aliphatic Carboxylic Ester	623-91-6	1 - 5%
Propylene Carbonate	50862-75-4	1 - 5%
Aldimine	54914-37-3	1 - 5%

**SECTION 4 First Aid Measures**

**Eyes Contact:** Immediately flush eyes gently with large amounts of water for at least 20-30 minutes. Retract eyelids often. Get prompt medical attention. Symptoms of exposure may include pain or burning sensation, redness, swelling, tearing/discharge or blurred vision.

**Skin Contact:** Thoroughly wash the exposed area with mild soap and water. Remove contaminated clothing and launder contaminated clothing before re-use. Seek medical attention if exposure symptoms develop.

Symptoms may include irritation with reddening and itching. Repeated exposure may cause allergic skin reaction and sensitization of susceptible persons.

**Ingestion:** If large quantity is swallowed, give lukewarm water (2 cups) if victim is completely conscious/alert. Do not induce vomiting as risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention.

**Inhalation:** Inhalation is unlikely due to low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation. If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

**Advise to physicians:** If exposed, treat skin and eye burns or irritation conventionally after decontamination. This material or its emissions may induce an allergic or sensitization reaction and thereby aggravate systemic disease.

**SECTION 5 Fire Fighting Measures**

**Conditions of Flammability**

At higher temperatures vapors can cause pressure build up in sealed containers. Use water to cool containers exposed to fire.

**Suitable extinguishing media**

Dry Chemical, CO<sub>2</sub>, Foam, Water spray/water fog for cooling.

**Hazardous Decomposition Products**

Fire and thermal decomposition can produce carbon oxides, nitrogen oxides (NO<sub>x</sub>) amines and other aliphatic fragments which have not been determined. Ammonia may be liberated at high temperatures.

**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. Notify authorities if liquid enters sewer/public waters.

**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**

Extinguish all ignition sources and ventilate area. Wear protective equipment during clean up. Cover spills and soak up small spill with inert solids (such as vermiculite, clay) and sweep/shovel into vented disposal container. Wash spill area with a strong detergent and water solution; rinse with water but minimize water use during clean up. For spills on water, contain, minimize dispersion and collect. Dispose/report per regulatory requirements. Evacuate and keep unnecessary people out of the spill area. See Section 1 for emergency contact information and Section 13 for waste disposal.

**SECTION 7 Handling and Storage**

**Precautions for Safe Handling**

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.

**Conditions for Safe Storage**

Keep container closed when not in use. Store in a dry place away from excessive heat. The material can be stored safely at ambient temperatures. Minimum storage temperature 32 F (0 C) Maximum storage temperature 104 F (40 C). Material is hygroscopic and may absorb small amounts of atmospheric moisture.

**SECTION 8 Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES**

Hazardous Component	PEL	STEL	TLV	Other
Aspartic Ester (s)	NE	NE	NE	
Aliphatic Carboxylic Ester	NE	NE	NE	
Propylene Carbonate	NE	NE	NE	
Aldimine	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.

**Respiratory Protections**

No respiratory protection is recommended for working with this material. However if conditions such as in a spray application create a high vapor or mist concentration, use of a NIOSH/MSHA organic vapor/particulate approved respirator or supplied air is recommended.

**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, rubber or latex. Clean equipment thoroughly after each use.

**Other hygienic 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	Viscous Liquid
Color	Clear to light straw
pH	Not available
Melting/Freezing Temperature	< -20 C (<4 F)
Boiling Point	185C/365F @ 1.0133mbar)
Flash Point	> 93.3 C/200 F
Ignition Temperature	Not available
Autoignition Temperature	N/AP
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	0.000014 mm Hg
Vapor Density (air=1)	>1
Specific Gravity (water=1 @39.2F)	AP 1.22 at 25 C/77F
Evaporation Rate (Bac=1)	None
Odor	Mild amine odor
Odor threshold	Not available

**SECTION 10 Stability and Reactivity**

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

**Conditions to Avoid**

Avoid extreme heat.

**Materials to Avoid**

Avoid contact with oxidizing agents.

**Hazardous Decomposition Products**

Fire and thermal decomposition can produce carbon oxides, nitrogen oxides (NOx) amines and other aliphatic fragments which have not been determined. Ammonia may be liberated at high temperatures.

**SECTION 11 Toxicological Information**

<p><b>Toxicity Data Based on DESMOPHEN NH 1520</b></p> <p><b>Acute Toxicity</b></p> <table border="0"> <tr> <td>Oral LD50</td> <td>Rat</td> <td>&gt; 200 mg/kg</td> </tr> <tr> <td>Dermal LD50</td> <td>Rat</td> <td>&gt; 2,000 mg/kg</td> </tr> <tr> <td>Inhalation LC50</td> <td>Rat</td> <td>&gt; 4,224 mg/m<sup>3</sup></td> </tr> </table> <p><b>Skin Corrosion/Irritation</b></p> <table border="0"> <tr> <td>Skin</td> <td>Rabbit</td> <td>Moderate skin Irritant</td> </tr> </table> <p><b>Serious Eye Damage/Eye Irritation</b></p> <table border="0"> <tr> <td>Eye</td> <td>Rabbit</td> <td>Non-irritating</td> </tr> </table> <p><b>Respiratory or Skin Sensitization</b></p> <table border="0"> <tr> <td>Dermal</td> <td>Guinea Pig Sensitizer</td> </tr> </table> <p><b>Mutagenicity</b></p> <p>Genetic Toxicity in Vitro: Ames test: negative (Salmonella typhimurium)</p> <p><b>Toxicity Data Based on Aliphatic Carboxylic Ester</b></p> <p><b>Acute Toxicity</b></p> <table border="0"> <tr> <td>Oral LD50</td> <td>Rat</td> <td>1,780 mg/kg</td> </tr> </table>	Oral LD50	Rat	> 200 mg/kg	Dermal LD50	Rat	> 2,000 mg/kg	Inhalation LC50	Rat	> 4,224 mg/m <sup>3</sup>	Skin	Rabbit	Moderate skin Irritant	Eye	Rabbit	Non-irritating	Dermal	Guinea Pig Sensitizer	Oral LD50	Rat	1,780 mg/kg	<p><b>Toxicity Data Based on Aspartic Ester</b></p> <p><b>Acute Toxicity</b></p> <table border="0"> <tr> <td>Oral LD50</td> <td>Rat</td> <td>&gt; 2,000 mg/kg</td> </tr> <tr> <td>Dermal LD50</td> <td>Rat</td> <td>&gt; 2,000 mg/kg</td> </tr> <tr> <td>Inhalation LC50</td> <td>Rat</td> <td>4,224 mg/m<sup>3</sup></td> </tr> </table> <p><b>Skin Corrosion/Irritation</b></p> <table border="0"> <tr> <td>Skin</td> <td>Rabbit</td> <td>Moderate skin Irritant</td> </tr> </table> <p><b>Serious Eye Damage/Eye Irritation</b></p> <table border="0"> <tr> <td>Eye</td> <td>Rabbit</td> <td>Non-irritating</td> </tr> </table> <p><b>Respiratory or Skin Sensitization</b></p> <table border="0"> <tr> <td>Dermal</td> <td>Guinea Pig Sensitizer</td> </tr> </table> <p><b>Mutagenicity</b></p> <p>Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)</p> <p><b>Carcinogenicity</b></p> <p>IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.</p> <p>NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.</p>	Oral LD50	Rat	> 2,000 mg/kg	Dermal LD50	Rat	> 2,000 mg/kg	Inhalation LC50	Rat	4,224 mg/m <sup>3</sup>	Skin	Rabbit	Moderate skin Irritant	Eye	Rabbit	Non-irritating	Dermal	Guinea Pig Sensitizer
Oral LD50	Rat	> 200 mg/kg																																				
Dermal LD50	Rat	> 2,000 mg/kg																																				
Inhalation LC50	Rat	> 4,224 mg/m <sup>3</sup>																																				
Skin	Rabbit	Moderate skin Irritant																																				
Eye	Rabbit	Non-irritating																																				
Dermal	Guinea Pig Sensitizer																																					
Oral LD50	Rat	1,780 mg/kg																																				
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Dermal LD50	Rat	> 2,000 mg/kg																																				
Inhalation LC50	Rat	4,224 mg/m <sup>3</sup>																																				
Skin	Rabbit	Moderate skin Irritant																																				
Eye	Rabbit	Non-irritating																																				
Dermal	Guinea Pig Sensitizer																																					

**SECTION 12 Ecological Information**

**Aquatic Ecotoxicity**      Desmophen NH1520

Toxicity to fish	LC50 Brachydanio rerio (Zebra fish) 66 mg/l – 96 h
Toxicity to aquatic invertebrates	EC50 Daphnia magna (water flea) 88.6 mg/l – 48 h
Toxicity to algae	EC50 Scenedemus subspicatus (Green Algae) 113 mg/l – 72 h
Toxicity to bacteria	EC50 3,000 mg/l

**Biodegradability**

13% Not readily biodegradable. Aerobic exposure time 28 d

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**SECTION 13 Disposal Considerations**

**Waste Disposal**

When a decision is made to discard this material as supplied, it does not meet RCRA's characteristics definition of ignitability, corrosiveness, or reactivity and is not listed in 40CFR261.33. The toxicity characteristic (TC), has not been evaluated by the Toxicity Characteristic Leaching Procedure (TCLP).

**SECTION 14 Transport Information**

**DOT (US)**

Not regulated by DOT

**IMDG**

Not regulated by IMDG

**IATA**

Not regulated by IATA

**SECTION 15 Regulatory Information**

**TSCA INVENTORY STATUS**

All components are listed or exempt

**OSHA HAZARDS**

Skin, Eye and Respiratory Irritant, Skin Sensitizer

	<b>HMIS Classification</b>	<b>NFPA Rating</b>
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	0	0

**SARA TITLE III: Section 311/312 Hazard Class**

This product does not contain a chemical which is listed in Section 313 at or above the de minimus concentrations.

**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 does not contain, or may contain substance(s) 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 SDS 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 SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable. This SDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200).

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. LSP Performance Resins assumes no responsibility for personal injury or property damage to vendees, such vendees or users assume all risks associated with the use of the material.

# MATERIAL SAFETY DATA SHEET

## SECTION 1 IDENTIFICATION

CLIFFORD W. ESTES CO., INC  
40 VREELAND AVE STE 104  
TOTOWA, NJ 07512

DATE: JANUARY 2005  
PHONE: 973.890.1515

PRODUCT BRAND NAME: PERMACOLOR SURFACE AGGREGATES, REGULAR AND HP

PRODUCT IDENTIFICATION : BROADCAST(MED.&FINE), TROWEL-RITE (REGULAR AND SUPER), VARIOUS COLORS

CHEMICAL NAME: SILICON DIOXIDE (SIO2)

DEPARTMENT OF TRANSPORTATION: SAND, GRAVEL, NOIBN

CHEMICAL FAMILY: SILICA SAND

COLOR: TYPICAL COLORS

## SECTION II HAZARDOUS INGREDIENTS

CHEMICAL NAME	% WT	CAS#	OSHA (PEL)	ACGIH (TLV)
SILICA SAND	94	14808-60-7		.1MG/M3
RESIN	4.95	NON-HAZARDOUS PROPRIETARY	N/A	N/A
TIO2	0.99	13463-67-7		
COLORANTS ORGANIC AND INORGANIC	0.06	NON-HAZARDOUS		

\* Special Statement regarding Hazardous ingredients:

Although these products are composed primarily of Silica Sand (SIO2), and such sand is potentially a source for respirable dust, the sand particles are thoroughly encapsulated in a coating which captures all dust and should, under normal circumstances, prevent any normal release of silica dust to the workplace. See page two, Section VIII for further information on handling.

## SECTION III PHYSICAL DATA

BOILING POINT: NONE  
VAPOR PRESSURE: NONE  
VAPOR DENSITY: NONE  
% VOLATILES :<1%

APPEARANCE: SAND OR AGGREGATE, TYPICAL COLORS

SPECIFIC GRAVITY: 2.65  
PH: INERT  
EVAPORATION RATE: N/A  
SOLUBILITY IN WATER: INSOLUBLE

## **HIMS RATINGS**

HEALTH	0*
FLAMABILITY	0
REACTIVITY	0

\*REFER TO SPECIAL STATEMENT ABOVE

**SECTION IV FIRE AND EXPLOSION HAZARD**

FLASH POINT: NON-FLAMMABLE

FLAMMABLE LIMITS: LEL- N/A , UEL - N/A

UNUSUAL FIRE AND EXPLOSION HAZARDS: Products of combustion may include irritating gases.

**SECTION V HEALTH AND SAFETY**

THRESHOLD LIMIT VALUE: (SEE PAGE ONE)

EFFECTS OF OVER EXPOSURE: Prolonged inhalation of mineral dust may cause delayed lung injury.

EMERGENCY AND FIRST AID PROCEDURES: - EYES, Remove in the same manner as one would remove any foreign particle.

**SECTION VI REACTIVITY DATA**

STABILITY: Stable

INCOMPATIBILITY: Dissolves in hydrofluoric acid

CONDITIONS TO AVOID: None Known

**SECTION VII SPILL/LEAK PROCEDURES**

1. Clean up using dustless procedures. Use water and/or vacuum.
2. WASTE DISPOSAL: Dispose using locally approved waste disposal sites.

**SECTION VIII SPECIAL PROTECTION**

Use of this product under normal and recommended conditions and specifications will pose no known hazards. However, if surfaces using this product are subjected to sanding or grinding as might occur for maintenance purposes, and such treatment produces respirable dust, then proper ventilation and breathing apparatus should be used. Under such conditions, NIOSH-BOM approved respirators should be worn.

GLOVES: Optional

EYE PROTECTION: Full eye zone goggles should be worn.

**SECTION IX SPECIAL PRECAUTIONS**

1. USE DUSTLESS PROCEDURES DURING HANDLING, STORAGE, AND CLEAN-UP
2. PRACTICE GOOD HOUSEKEEPING. MAINTAIN VENTILATION. POST WARNING TO EMPLOYEES WHERE PRODUCT IS USED, STORED, AND HANDLED.

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek® Standard Hardener, SH101      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	Maybe 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%
polyoxalkyleneamine	9046100	
Triethylene glycol diamine	929599	
Epoxy curing agent	mixture	
Alkyl phenol	84852153	
Alpha hydroxyl toluene	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
polyoxalkyleneamine	NE	NE	NE	NE
Triethylene glycol diamine	NE	NE	NE	NE
Epoxy curing agent	NE	NE	NE	NE
Alkyl phenol	NE	NE	NE	NE
Alpha hydroxyl toluene	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 of 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	Colorless to 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)	1.14 at 25 C/77F
Evaporation Rate (Bac=1)	None
Odor	Light possible phenol
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	

**HMIS Classification**

Health Hazard;	3
Flammability	1
Physical Hazards	0

**NFPA Rating**

3
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).

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. LSP Performance Resins assumes no responsibility for personal injury or property damage to vendees, such as vendees or users assume all risks associated with the use of the material.

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek® Standard Resin, SR101 Chemtrec  
**GENERIC NAME:** Epoxy Resin 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
Carcinogenicity: Not listed by NTP Not Listed by IARC Not Listed by OSHA	Reproductive Toxicity Reproductive Effects : Not Available Teratogenic Effects: Not Available	Signs and Symptoms of Overexposure: Irritation of Skin  Medical Conditions Aggravated: 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	Maybe 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%
diglycidyl ether bisphenol A epoxy resin	25085-99-8	
Aliphatic epoxide	68609-97-2	
Alkylated phenol	AN123581	
2-methyl-2,4-pentanediol	107-41-5	
Alkyl phenol	84852153	

**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.

**Advise 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
diglycidyl ether bisphenol A epoxy resin	NE	NE	NE	NE
Aliphatic epoxide	NE	NE	NE	NE
Alkylated phenol	NE	NE	NE	NE
2-methyl-2,4-pentenediol	25 ppm	NE	25 ppm	NE
Alkyl phenol	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 of 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	Colorless to 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)	1.14 at 25 C/77F
Evaporation Rate (Bac=1)	None
Odor	Light possible phenol
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
------	----------

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

**HMIS Classification**

Health Hazard;	2	<b>NFPA Rating</b>	2
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).

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek® Topcoat Resin TRP354 (all colors) Chemtrec  
**GENERIC NAME:** Pigmented Epoxy Resin 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
Carcinogenicity: 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 Skin Irritant Serious Eye Damage Skin Sensitization	Category 5 Category 2 Category 1 Category 1	Not Classified   Not Classified

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%
Diglycidyl ether bisphenol A epoxy resin	25085-99-8	
Aliphatic epoxide	Mixture	
Salt of unsat'd amides and acidic esters	Mixture	
Barium sulfate	7727-43-7	5-10
Alpha hydroxide toluene	100-51-6	
Methyl n-amyl ketone	110-43-0	0-2

**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
Diglycidyl ether bisphenol A epoxy resin	NE	NE	NE	NE
Aliphatic epoxide	NE	NE	NE	NE
Salt of unsat'd amides and acidic esters	NE	NE	NE	NE
Barium sulfate	10 mg/m3	NE	10 mg/m3	NE
Alpha hydroxide toluene	NE	NE	NE	NE
Methyl n-amyl ketone	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	Viscous Liquid
Color	various
pH	Not available
Melting/Freezing Temperature	N/A
Boiling Point	N/A
Flash Point	>200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	Not available
Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	1.4
Evaporation Rate (Bac=1)	None
Odor	Mild, sweet
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	

HMIS Classification		NFPA Rating	
Health Hazard;	1		1
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)**  
 Barium sulfate is listed in SARA III, part 372, section 313

**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).

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or results to be obtained from the user thereof. LSP Performance Resins assumes no responsibility for personal injury or property damage to vendees, such as vendees or users assume all risks associated with the use of the material.

LSP PERFORMANCE RESINS      124 Speer Road      Chestertown, MD 21620  
 800.638.9874      FAX 410.778.3625      web www.lspinc.com

**SECTION 1 Product and Company Information**

**PRODUCT NAME:** SeamTek® UV13 Clear surface Coat Chemtrec  
**GENERIC NAME:** Vinyl ester resin 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**

Emergency Overview – no known huma or animal health effects dada – these are expectations <b>OSHA Hazardous</b> Target Organ Effect: Skin Sensitizer, Irritant Target Organs: Respiratory, eyes, Skin Physical Appearance: Viscous liquid Immediate Concerns: Skin Irritation		Potential Health Effects 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
Carcinogenicity: Not listed by NTP Not Listed by IARC Not Listed by OSHA	Reproductive Toxicity Reproductive Effects : Not Available Teratogenic Effects: Not Available	Signs and Symptoms of Overexposure: Irritation of Skin,  Medical Conditions Aggravated: 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	Maybe 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%
Unsaturated Vinyl ester Resin	See Index	Ap 25-85
Monomer(s)	See index	Ap 15-75

**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 15 minutes. If sticky, use waterless cleaner first. 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. **PROMT ACTION IS ESSENTIAL**

**INGESTION:** If large quantity swallowed, give lukewarm water (pint) if victim is conscious. Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting as risk of damage to lungs exceeds poisoning risk. 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**

High temperature, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerization reaction, generating heat/pressure. Closed containers may rupture or explode during runaway polymerization.

**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. Avoid exposure to sources of UV light. Store out of direct sunlight. Check inhibitor content often, adding to bulk liquid if needed. Do not blanket or mix with oxygen free gas as it renders inhibitor ineffective. Do not store below 32F – inhibitor can separate as a solid. If frozen, warm and remix material gently (<90F) . Prevent moisture contact. Keep container tightly closed and sealed until ready for use. Use only non sparking tools. 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
	NE	NE	NE	NE
	NE	NE	NE	NE
	NE	NE	NE	NE
	NE	NE	NE	NE
	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** A properly fitted, NIOSH/MSA approved respiratory protection equipment is recommended. 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	Viscous Liquid
Color	Straw to light yellow
pH	Not available
Melting/Freezing Temperature	Na
Boiling Point	Na
Flash Point	> 95 C/ 200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	Na

Material Safety Data Sheet		UV13
Effective Date: 01/05/11	Previous Revision date: 00/00/0000	Date Printed: 6/13/2014

Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	AP 1.20 @25C/77C
Evaporation Rate (Bac=1)	N/DA
Odor	Mild to sweet acrylic
Odor threshold	Not available

<b>SECTION 10 Stability and Reactivity</b>	
<b>Chemical Stability</b> Stable under recommended storage conditions	
<b>Possibility of Hazardous Reactions</b> No data available	
<b>Conditions to Avoid</b> High temperatures, localized heat sources (ie) drum or band heaters), oxidizing conditions, freezing conditions, direct sunlight, UV radiation, inert gas blanketing,	
<b>Materials to Avoid</b> Reactive or incompatible with: acids, strong oxidizers, strong reducers, free radical initiators, inert gas, oxygen scavengers	
<b>Hazardous Decomposition Products</b> Decomposition products formed under fire conditions may include: Carbon oxides, acrid smoke fumes, other toxic vapors.	

<b>SECTION 11 Toxicological Information</b>	
<b>Acute Toxicity</b> Oral LD50 . Dermal LD50 Inhalation LC50 No data available  <b>Skin Corrosion/Irritation</b> Skin Irritant  <b>Serious Eye Damage/Eye Irritation</b> Eye Irritant Eyes Rabbit  <b>Respiratory or Skin Sensitization</b> May cause skin or respiratory sensitization  <b>Mutagenicity</b>	<b>Carcinogenicity</b> 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  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  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

<b>SECTION 12 Ecological Information</b>	
<b>Aquatic Ecotoxicity</b> No data available	
<b>Biodegradability</b> Persistent Not readily biodegradable	
<b>Mobility in soil</b> 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	

**HMIS Classification**

Health Hazard;	2		
Flammability	1	0	
Physical Hazards	2	0	

**NFPA Rating**

**SARA TITLE III: Section 311/312 Hazard Class**

This product does not contain a chemical which is listed in Section 313 at or above the de minimus concentrations

**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).