

SDS Listing and Explanation

| TYPE 4 Flooring System | | | | |
|------------------------------|---|---------------------------|--|--|
| Proper Name | Use within System | Name on General MSDS List | | |
| 101 Resin (SR 101 and SH101) | Body matrix for Aggregate Build Coat(s) | SR101 and SH 101 | | |
| Resin 405 | Chemical Resistant Epoxy Hardener | CRH 405 | | |
| Estes Quartz | Color Quartz Broadcast Aggregate | Sand | | |

Chestertown, MD 21620 Fax: (410) 778-3625

<u>www.lspinc.com</u>



CRH405

Effective Date: 08/01/01 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

SECTION 1 Product and Company Information

PRODUCT NAME: SeamTek® Chemical Resistant Hardener, CRH405

Chemtrec

GENERIC NAME: Epoxy Hardener

24 Hour Emergency Number 1-800-424-9300

Information Number: 1-800-666-6216

DISTRIBUTOR: LSP Performance Resins

124 Speer Road

Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29

CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

| SECTION 2 Hazards Identific | cation | | |
|---|--------------------------------------|---|--|
| Emergency Overview | | Potential Health Effects | |
| OSHA Hazardous | | Skin: Will cause irritation and dermatitis, repeated | |
| Target Organ Effect: Skin Ser | sitizer, Irritant | overexposure will cause dermatitis and sensitization. | |
| Target Organs: Respira | tory, eyes, Skin | Sensitized persons may experience rapid irritation of | |
| Physical Appearance: Viscous liquid | | skin upon exposure. | |
| Immediate Concerns: Skin Irrita | ation | Inhalation and Ingestion: Irritation to system | |
| Carcinogenicity: | Reproductive Toxicity | Signs and Symptoms of Overexposure: Irritation of | |
| Not listed by NTP | Reproductive Effects : Not Available | Skin | |
| Not Listed by IARC Teratogenic Effects: Not Available | | | |
| Not Listed by OSHA | | Medical Conditions Aggravated: | |
| | | Allergy, Skin Disorders | |
| CUCL Free | Danas Casanas | | |

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

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

Pictogram:





Signal Word Danger

| | Hazard Statements | Precautionary Statements | |
|---|--|--|--|
| H303 | May be harmful if swallowed | P280 Wear protective gloves/protective clothing/eye | |
| H315 | H315 Causes skin irritation protection/face protection | | |
| H317 May cause an allergic skin reaction P305+P35 | | P305+P351+P338 IF IN EYES: Rinse cautiously with water | |
| H318 Causes serious eye damage for severa | | for several minutes. Remove contact lenses, if present and | |
| | | easy to do. Continue rinsing. | |

| SECTION 3 Composition / Information on Ingredients | | | |
|--|--------------|-----|--|
| Chemical Name | CAS | Wt% | |
| Modified cycloaliphatic polyamines | Trade secret | | |
| Benzyl alcohol | 100-51-6 | | |
| | | | |
| | | | |
| | | | |



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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.



CRH405

Effective Date: 08/01/01 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

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 no store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

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

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

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

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

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

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

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

| SECTION 9 Physical and Chemical Properties | |
|--|---------------------------|
| Appearance | |
| Form | Liquid |
| Color | Light amber |
| рН | Not available |
| Melting/Freezing Temperature | 40 C/ 104 F |
| Boiling Point | 336 C/ 637 F |
| Flash Point | > 95 C/ 200 F |
| Ignition Temperature | Not available |
| Autoignition Temperature | Not available |
| Lower explosive limit; na | Upper explosive limit: na |
| Vapor Pressure | <0.1 mm Hg |
| Vapor Density (air=1) | Not available |
| Specific Gravity (water=1 @39.2F) | >1.01 |
| Evaporation Rate (Bac=1) | None |
| Odor | amine |
| Odor threshold | Not available |



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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

Skin Corrosion/Irritation

Skin Irritant

Serious Eye Damage/Eye Irritation

Eye Irritant Eyes Rabbit

Severe eye irritation - 24 H

Respiratory or Skin Sensitization

May cause skin or respiratory sensitization

Mutagenicity

Mouse Skin Carcinogenic by RTECS Criteria liver, ovarian, thyroid

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

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

SECTION 12 Ecological Information

Aguatic Ecotoxicity

No data available

Biodegradability

Persistant Not readily biodegradable

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.



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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;33Flammability10Physical Hazards00

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 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.

LSP PERFORMANCE RESINS 800.638.9874

124 Speer Road FAX 410.778.3625

Chestertown, MD 21620 web www.lspinc.com

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 SPECIFIC GRAVITY: 2.65
VAPOR PRESSURE: NONE PH: INERT
VAPOR DENSITY: NONE EVAPORATION RATE: N/A

% VOLATILES :<1% SOLUBILITY IN WATER: INSOLUBLE

APPEARANCE: SAND OR AGGREGATE, TYPICAL COLORS

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 hydroflouric 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
- $2.\ PRACTICE\ GOOD\ HOUSE KEEPING.\ MAINTAIN\ VENTILATION.\ POST\ WARNING\ TO\ EMPLOYEES\ WHERE\ PRODUCT\ IS\ USED,\ STORED,\ AND\ HANDLED.$



SH101

Effective Date: 10/29/2012 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

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 Ident | ification | | |
|---|--------------------------------------|---|--|
| Emergency Overview | | Potential Health Effects | |
| OSHA Hazardous | | Skin: Will cause irritation and dermatitis, repeated | |
| Target Organ Effect: Skin Sensitizer, Irritant | | overexposure will cause dermatitis and sensitization. | |
| Target Organs: Resp | iratory, eyes, Skin | Sensitized persons may experience rapid irritation of | |
| Physical Appearance: Viscou | ıs liquid | skin upon exposure. | |
| Immediate Concerns: Skin Ir | ritation | Inhalation and Ingestion: Irritation to system | |
| Carcinogenicity: | Reproductive Toxicity | Signs and Symptoms of Overexposure: Irritation of | |
| Not listed by NTP | Reproductive Effects : Not Available | Skin | |
| Not Listed by IARC Teratogenic Effects: Not Available | | | |
| Not Listed by OSHA | | Medical Conditions Aggravated: | |
| | | Allergy, Skin Disorders | |
| GHS LABEL FLEMENTS INC | LIDING DECALITIONARY STATEMENTS | | |

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 | |
| H315 | Causes skin irritation | protection/face protection | |
| H317 | May cause an allergic skin reaction | P305+P351+P338 IF IN EYES: Rinse cautiously with water | |
| H318 | Causes serious eye damage | for several minutes. Remove contact lenses, if present and | |
| | | easy to do. Continue rinsing. | |

| 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 | | |



SH101

Effective Date: 10/29/2012 Previous Revision date: 00/00/0000 Date Printed: 6/9/201

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.



SH101

Effective Date: 10/29/2012 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

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 no store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Controls / Personal Protection

| FVD | OSI. | IRE | GH | IDE | LINES |
|--------------------|------|-----|------|------|-------|
| $\Gamma \Lambda P$ | しょうし | חתר | (TU) | IIJE | เมนะว |

| 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 or the product and the safe working limits of the selected respirator.

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

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

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

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

| SECTION 9 Physical and Chemical Properties | |
|--|---------------------------|
| Appearance | |
| Form | Liquid |
| Color | 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 |



Effective Date: 10/29/2012 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

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

Skin Corrosion/Irritation

Skin Irritant

Serious Eye Damage/Eye Irritation

Eye Irritant Eyes Rabbit

Severe eye irritation – 24 H

Respiratory or Skin Sensitization

May cause skin or respiratory sensitization

Mutagenicity

Mouse Skin Carcinogenic by RTECS Criteria liver, ovarian, thyroid

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

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

SECTION 12 Ecological Information

Aquatic Ecotoxicity

No data available

Biodegradability

Persistant Not readily biodegradable

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.



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Date Printed: 6/9/2014

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; 3 3 3 3 Flammability 1 0 Physical Hazards 0 0

SARA TITLE III: Section 311/312 Hazard Class

Acute Health Hazard, Chronic Health Hazard

SARA TITLE III: Section 313 (40CFR370)

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

CERCLA Information (40CFR302.4)

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

California Proposition 65 Information:

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

SECTION 16 Other Information

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

The information contained herein is based 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.

LSP PERFORMANCE RESINS 800.638.9874

124 Speer Road FAX 410.778.3625 Chestertown, MD 21620 web www.lspinc.com



SR101

Effective Date: 10/29/2012 Previous Revision date: 00/00/0000 Date Printed: 6/9/2014

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

| Emergency Overview | | Potential Health Effects | | |
|---|--------------------------------------|---|--|--|
| OSHA Hazardous | | Skin: Will cause irritation and dermatitis, repeated | | |
| Target Organ Effect: Ski | n Sensitizer, Irritant | overexposure will cause dermatitis and sensitization. | | |
| Target Organs: Re | spiratory, eyes, Skin | Sensitized persons may experience rapid irritation of | | |
| Physical Appearance: Viscous liquid | | skin upon exposure. | | |
| Immediate Concerns: Skin Irritation | | Inhalation and Ingestion: Irritation to system | | |
| Carcinogenicity: | Reproductive Toxicity | Signs and Symptoms of Overexposure: Irritation of | | |
| Not listed by NTP | Reproductive Effects : Not Available | Skin | | |
| Not Listed by IARC Teratogenic Effects: Not Available | | | | |
| Not Listed by OSHA | | 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 |
| H315 | Causes skin irritation | protection/face protection |
| H317 | May cause an allergic skin reaction | P305+P351+P338 IF IN EYES: Rinse cautiously with water |
| H318 | Causes serious eye damage | for several minutes. Remove contact lenses, if present and |
| | | easy to do. Continue rinsing. |

| SECTION 3 Composition / Information on Ingredie | nts | |
|---|------------|-----|
| 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 | |



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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



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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 no store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Controls / Personal Protection

| EXDUSTIBE | GUIDELINES | |
|-----------|-------------------|---|
| LAFUSURL | GOIDLLINES | ١ |

| 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-pentanediol | 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 or the product and the safe working limits of the selected respirator.

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

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

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

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

| SECTION 9 Physical and Chemical Properties | |
|--|---------------------------|
| Appearance | |
| Form | Liquid |
| Color | Colorless to Amber |
| рН | 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 |



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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

Skin Corrosion/Irritation

Skin Irritant

Serious Eye Damage/Eye Irritation

Eye Irritant
Eyes Rabbit

Severe eye irritation - 24 H

Respiratory or Skin Sensitization

May cause skin or respiratory sensitization

Mutagenicity

Mouse Skin Carcinogenic by RTECS Criteria liver, ovarian, thyroid 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

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

SECTION 12 Ecological Information

Aquatic Ecotoxicity

No data available

Biodegradability

Persistant Not readily biodegradable

Mobility in soil

No data available

SECTION 13 Disposal Considerations



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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; 2 2
Flammability 1 0
Physical Hazards 0 0

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