

<b><i>Glasswall TQ Flooring System</i></b>		
<b>Proper Name</b>	<b>Use within System</b>	<b>Name on General MSDS List</b>
101 Resin (SR 101 and SH101)	Epoxy Primer for the system	SR101 and SH 101
Resin 405	Chemical Resistant Epoxy Hardener for grout and seal coat	CRH 405
Estes Quartz	Color quartz used as aggregate for the system	Sand
Sphere Glass	Glass spheres used to enhance the act of trowling	Trowleeze

**SECTION 1 Product and Company Information**

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

**SECTION 2 Hazards Identification**

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

**GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS**

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

Pictogram:



**Signal Word** Danger

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

**SECTION 3 Composition / Information on Ingredients**

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

**SECTION 4 First Aid Measures**

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

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

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

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

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

**SECTION 5 Fire Fighting Measures**

**Conditions of Flammability**

Not flammable or combustible

**Suitable Extinguishing Media**

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

**Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions – Carbon Oxides

**Fire Fighting Instructions**

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

**SECTION 6 Accidental Release Measures**

**Personal Precautions**

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

**Environmental Precautions**

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

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

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

**SECTION 7 Handling and Storage**

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

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

**Conditions for Safe Storage**

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

**SECTION 8 Exposure Controls / Personal Protection**

**EXPOSURE GUIDELINES**

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

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

**PERSONAL PROTECTIVE EQUIPMENT** Use a properly fitted, air-purifying or air supplied respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards 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	Light amber
pH	Not available
Melting/Freezing Temperature	40 C/ 104 F
Boiling Point	336 C/ 637 F
Flash Point	> 95 C/ 200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	<0.1 mm Hg
Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	>1.01
Evaporation Rate (Bac=1)	None
Odor	amine
Odor threshold	Not available

**SECTION 10 Stability and Reactivity**

**Chemical Stability**  
Stable under recommended storage conditions

**Possibility of Hazardous Reactions**  
No data available

**Conditions to Avoid**  
Avoid strong acids, bases in bulk and elevated temperatures

**Materials to Avoid**  
Reactive or incompatible with: acids, oxidizers, amines

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

**SECTION 11 Toxicological Information**

<b>Acute Toxicity</b> Oral LD50                      Rat > 4000 mg/kg. Dermal LD50                  Rabbit 20,000 mg/kg Inhalation LC50                No data available	<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>Skin Corrosion/Irritation</b> Skin    Irritant	
<b>Serious Eye Damage/Eye Irritation</b> Eye    Irritant Eyes    Rabbit Severe eye irritation – 24 H	
<b>Respiratory or Skin Sensitization</b> May cause skin or respiratory sensitization	
<b>Mutagenicity</b> Mouse    Skin Carcinogenic by RTECS Criteria liver, ovarian, thyroid	

**SECTION 12 Ecological Information**

**Aquatic Ecotoxicity**  
No data available

**Biodegradability**  
Persistent    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.

**SECTION 14 Transport Information**

**DOT (US)**  
Not Regulated

**IMDG**  
Not Regulated

**TDG**  
Not Regulated

**SECTION 15 Regulatory Information**

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

**OSHA HAZARDS**

Skin Sensitizer	Irritant	
Corrosive Material		

  

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

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

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

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

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

**SECTION 16 Other Information**

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

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  
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  
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.



**Potters Industries Inc.**  
an affiliate of The PQ Corporation

# MSDS

MATERIAL SAFETY DATA SHEET

Trade Name: **SPHERIGLASS® GLASS SPHERES E-GLASS**  
Date Prepared: 02/26/05

Page: 1 of 4

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: SPHERIGLASS® Glass Spheres E-Glass  
Product description: Spherical glass powder  
Manufacturer: Potters Industries, Inc.  
P. O. Box 840  
Valley Forge, PA 19482 USA  
Phone number: 610-651-4200  
In case of emergency call: 1 610-651-4200  
For transportation emergencies  
Call CHEMTREC: 1 800-424-9300

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name	CAS Registry Number	Wt. %	OSHA PEL	ACGIH TLV
Glass, oxide; Glass	65997-17-3	~100%	15mg/m <sup>3</sup> total dust, 5mg/m <sup>3</sup> respirable	10 mg/m <sup>3</sup> inhalable, 3 mg/m <sup>3</sup> respirable

## 3. HAZARDS IDENTIFICATION

Emergency Overview: Noncombustible white powder. Practically non-irritating to the eyes. Slightly irritating to the skin. Spilled material is extremely slippery.

Eye contact: Practically non-irritating to eyes.  
Skin contact: Slightly irritating to skin.  
Inhalation: May cause irritation.  
Ingestion: No known hazard.  
Chronic hazards: No known chronic hazards. Not listed by NTP, IARC or OSHA as a carcinogen.  
Physical hazards: Spilled material is extremely slippery.

## 4. FIRST AID MEASURES

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Inhalation: None required.  
Ingestion: None required.

## 5. FIRE FIGHTING MEASURES

<i>Flammable limits:</i>	This material is noncombustible.
<i>Extinguishing Media:</i>	This material is compatible with all extinguishing media
<i>Hazards to fire-fighters:</i>	See Section 3 for information on hazards when this material is present in the area of a fire.
<i>Fire-fighting equipment:</i>	The following protective equipment for fire fighters is recommended when this material is present in the area of a fire: rubber boots with slip-resistant soles.

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## 6. ACCIDENTAL RELEASE MEASURES

<i>Personal protection:</i>	Wear eye goggles. Wear rubber boots with slip-resistant soles, and NIOSH-approved dust respirator where dust occurs. See section 8.
<i>Environmental Hazards:</i>	Sinks in water. No known hazard to aquatic life.
<i>Small spill cleanup:</i>	Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE). See section 8.
<i>Large spill cleanup:</i>	Keep unnecessary people away; isolate hazard area and deny entry. Do not walk through spilled material. Carefully shovel or sweep up spilled material and place in suitable container. Avoid generating dust. Use appropriate Personal Protective Equipment (PPE). See section 8.
<i>CERCLA RQ:</i>	There is no CERCLA Reportable Quantity for this material.

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## 7. HANDLING AND STORAGE

<i>Handling:</i>	Avoid contact with eyes, skin and clothing. Avoid breathing dust. Keep container closed. Promptly clean up spills.
<i>Storage:</i>	Keep containers closed. Store in clean metal, fiber or plastic containers.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Engineering controls:</i>	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
<i>Respiratory protection:</i>	Use a NIOSH-approved dust respirator where dust occurs. Observe OSHA regulations for respirator use (29 C.F.R. §1910.134)
<i>Skin protection:</i>	Wear body-covering protective clothing.
<i>Eye protection:</i>	Wear safety glasses.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance:</i>	Glass powder
<i>Color:</i>	White.
<i>Melting point:</i>	Approximately 730° C.
<i>Odor:</i>	Odorless.
<i>pH:</i>	Not applicable.

*Specific gravity:* Approximately 2.5 g/cm<sup>3</sup>  
*Solubility in water:* Insoluble.

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#### **10. STABILITY AND REACTIVITY**

*Stability:* This material is stable under all conditions of use and storage.  
*Conditions to avoid:* None.  
*Materials to avoid:* Dissolves in hydrofluoric acid.  
*Hazardous decomposition products:* None known.

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#### **11. TOXICOLOGICAL INFORMATION**

*Acute Data:* When tested for primary irritation potential, a similar material was practically non-irritating to the eyes and slightly irritating to the skin. The acute oral toxicity of this product has not been tested. A similar material was nontoxic to rats at 5,000 mg/kg. All animals survived, gained weight and appeared active and healthy. There were no signs of gross toxicity, adverse pharmacologic effects or abnormal behavior.  
*Subchronic Data:* There are no known reports of subchronic toxicity of nonfibrous glass.  
*Special Studies:* There are no known reports of carcinogenicity of nonfibrous glass. Nonfibrous glass is not listed by IARC, NTP or OSHA as a carcinogen.

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#### **12. ECOLOGICAL INFORMATION**

*Eco toxicity:* There are no known reports of ecotoxicity of nonfibrous glass.  
*Environmental Fate:* This material is persistent but inert in aquatic systems. It will not bioconcentrate up the food chain.  
*Physical/Chemical:* Sinks in water. Insoluble in water.

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#### **13. DISPOSAL CONSIDERATIONS**

*Classification:* Disposed material is not a hazardous waste.  
*Disposal Method:* Dispose in accordance with federal, state and local regulations.

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Trade Name: **SPHERIGLASS® GLASS SPHERES E-GLASS**  
Date Prepared: 02/26/05 Page 4 of 4

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**14. TRANSPORT INFORMATION**

*DOT UN Status:* This material is not regulated hazardous material for transportation.

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**15. REGULATORY INFORMATION**

*CERCLA:* No CERCLA Reportable Quantity has been established for this material.  
*SARA TITLE III:* Not an Extremely Hazardous Substance under §302 Not a Toxic Chemical under §313.

*TSCA:* All ingredients of this material are listed on the TSCA inventory.  
*FDA:* Glass is regarded by FDA as Generally Recognized As Safe (GRAS) for use in contact with food.

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**16. OTHER INFORMATION**

*Prepared by:* John G. Blumberg  
*Supersedes revision of:* 01/13/03

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO POTTERS INDUSTRIES, INC. THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. POTTERS INDUSTRIES, INC. MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREIN FOR THEIR OWN PURPOSES.

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**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**

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

**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

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-pentenediol	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**

<p><b>Acute Toxicity</b></p> <table border="0"> <tr> <td>Oral LD50</td> <td>Rat &gt; 4000 mg/kg.</td> </tr> <tr> <td>Dermal LD50</td> <td>Rabbit 20,000 mg/kg</td> </tr> <tr> <td>Inhalation LC50</td> <td>No data available</td> </tr> </table> <p><b>Skin Corrosion/Irritation</b></p> <table border="0"> <tr> <td>Skin</td> <td>Irritant</td> </tr> </table> <p><b>Serious Eye Damage/Eye Irritation</b></p> <table border="0"> <tr> <td>Eye</td> <td>Irritant</td> </tr> <tr> <td>Eyes</td> <td>Rabbit</td> </tr> <tr> <td colspan="2">Severe eye irritation – 24 H</td> </tr> </table> <p><b>Respiratory or Skin Sensitization</b>                  May cause skin or respiratory sensitization</p> <p><b>Mutagenicity</b></p> <table border="0"> <tr> <td>Mouse</td> <td>Skin</td> </tr> <tr> <td colspan="2">Carcinogenic by RTECS Criteria</td> </tr> <tr> <td colspan="2">liver, ovarian, thyroid</td> </tr> </table>	Oral LD50	Rat > 4000 mg/kg.	Dermal LD50	Rabbit 20,000 mg/kg	Inhalation LC50	No data available	Skin	Irritant	Eye	Irritant	Eyes	Rabbit	Severe eye irritation – 24 H		Mouse	Skin	Carcinogenic by RTECS Criteria		liver, ovarian, thyroid		<p><b>Carcinogenicity</b></p> <p>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</p> <p>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</p> <p>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</p>
Oral LD50	Rat > 4000 mg/kg.																				
Dermal LD50	Rabbit 20,000 mg/kg																				
Inhalation LC50	No data available																				
Skin	Irritant																				
Eye	Irritant																				
Eyes	Rabbit																				
Severe eye irritation – 24 H																					
Mouse	Skin																				
Carcinogenic by RTECS Criteria																					
liver, ovarian, thyroid																					

**SECTION 12 Ecological Information**

**Aquatic Ecotoxicity**  
 No data available

**Biodegradability**  
 Persistent      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.

**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).