

UTEK UVF Flooring System		
Proper Name	Use within System	Name on General MSDS List
Resin 200C and 200 ISO	Grout	200C and 200 ISO
UTEK Parts A, B and C	Flooring Resin and Flake base	UTEK HD, SL, MD Component A, B, and Aggregate
UTEK Color Concentrate	Color	UTEK color pack
Flakes	Aggregate and system color	Chips
UV 13	UV Resin	UV13
TRP-354	Topcoat resin	TRP-354

SECTION 1 Product and Company Information

PRODUCT NAME: SeamTek 200 C ISO Chemtrec
GENERIC NAME: Aspartic Ester 24 Hour Emergency Number 1-800-424-9300
 Information Number 1- 920-803-1700

DISTRIBUTOR: LSP Performance Resins
 124 Speer Road
 Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

Emergency Overview
OSHA Hazardous
 Skin sensitizer, Skin, Eye, Respiratory Irritant, Digestive Tract Irritant

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Health		Environmental	Physical
Eye Irritation	Category 2A	Not Classified	Not Classified
Respiratory Sensitization	Category 1		
Skin Sensitization	Category 1		

Pictogram:



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

SECTION 3 Composition / Information on Ingredients

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

SECTION 4 First Aid Measures

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

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

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

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

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

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

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

SECTION 5 Fire Fighting Measures

Conditions of Flammability

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

Suitable extinguishing media

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

Hazardous Decomposition Products

Thermal decomposition may produce nitrogen oxides and carbon oxides.

Fire Fighting Instructions

Do not enter fire area without proper protection. Wear self contained breathing apparatus (pressure-demand MSHA/NIOSH) approved or equivalent. See Section 10 - decomposition products possible. Fight fire from safe distance/protected location. Use water spray/fog for cooling tightly sealed containers. Notify authorities if liquid enters sewer/public waters.

SECTION 6 Accidental Release Measures

Personal Precautions

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

Environmental Precautions

Avoid dispersal of spill material and runoff and contact with soil, waterways, drains and sewers. Notify authorities of any releases to sewers, soils, waterways or air. Prevent runoff from entering drains, sewers, or streams. Dispose/report per regulatory requirements. See Section 1 for emergency contact information and Section 13 for waste disposal.

Methods and Materials for Containment and Cleaning Up

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

SECTION 7 Handling and Storage

Precautions for Safe Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Conditions for Safe Storage

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

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

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

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

Engineering Controls

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

Respiratory Protections

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

Eye Protection

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

Skin and Body Protection

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene, rubber or latex. Clean equipment thoroughly after each use.

Other hygienic practices

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

OTHER WORK PRACTICES

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

Use good personal hygiene practices. Do not store, use and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is being used. Wash hands before eating, drinking, smoking or using toilet facilities. Wash exposed skin promptly to remove accidental splashes or contact with these materials. Promptly remove soiled clothing and wash thoroughly before reuse. Shower after work using plenty of soap and water.

SECTION 9 Physical and Chemical Properties

Appearance	
Form	Viscous Liquid
Color	Clear to Pale yellow
pH	Not available
Melting/Freezing Temperature	67 C (152 F)
Boiling Point	255 C (491 F)
Flash Point	170 C/ 338 F
Ignition Temperature	Not available
Autoignition Temperature	454 C (849 F)
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	0.001 mm Hg at 20 C
Vapor Density (air=1)	5.8 Air = 1
Specific Gravity (water=1 @39.2F)	1.13 at 20 C/68F
Evaporation Rate (Bac=1)	Not available
Odor	Odorless
Odor threshold	Not available

SECTION 10 Stability and Reactivity

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Stable under normal processing conditions.

Conditions to Avoid

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

Materials to Avoid

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

Hazardous Decomposition Products

Thermal decomposition may produce nitrogen oxides and carbon oxides

SECTION 11 Toxicological Information

Acute Toxicity hexamethylene diisocyanate

Oral LD50 – lethal concentration 50% of test species	Rat	> 5,000 mg/kg
Dermal LD50 – lethal concentration 50% of test species	Rabbit	> 2,000 mg/kg
Inhalation LD50 – lethal concentration 50% of test species	Rat	2.18 mg/l – 4 hr

Skin Corrosion/Irritation

Skin	Rabbit	Slightly Irritating
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Serious Eye Damage/Eye Irritation

Eye	Rabbit	Mildly Irritating
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Respiratory or Skin Sensitization

Skin	Guinea Pig	Sensitizing
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Mutagenicity

No data available

Carcinogenicity

IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

SECTION 12 Ecological Information

Aquatic Ecotoxicity	Bioaccumulative potential	No data available
No data available		
Biodegradability		
No data available		
Mobility in soil		
No data available		

SECTION 13 Disposal Considerations

Waste Disposal

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

SECTION 14 Transport Information

DOT (US)

Not regulated by DOT

IMDG

Not regulated by IMDG

IATA

Not regulated by IATA

SECTION 15 Regulatory Information

TSCA INVENTORY STATUS
 All components are listed or exempt

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

	HMIS Classification	NFPA Rating
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	1	1

SARA TITLE III: Section 311/312 Hazard Class

	CERCLA/SARA RQ
Hexamethylene diisocyanate	100 lbs

SARA TITLE III: Section 313 (40CFR370)

	CERCLA/SARA RQ
Hexamethylene diisocyanate	100 lbs

CERCLA Information (40CFR302.4)
 This material contains Hexamethylene diisocyanate and releases in excess of CERCLA thresholds are reportable.

California Proposition 65 Information:
 This product does not contain, or may contain substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

SECTION 16 Other Information

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

SECTION 1 Product and Company Information

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

DISTRIBUTOR: LSP Performance Resins
 124 Speer Road
 Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

Emergency Overview

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

Carcinogenicity:
 Not listed by NTP Reproductive Toxicity
 Not Listed by IARC Reproductive Effects : Not Available
 Not Listed by OSHA Teratogenic Effects: No evidence of mutagenetic effects

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Health		Environmental	Physical
Acute Toxicity	Category 5	Acute Aquatic Hazard	Category 3
Skin Irritant	Category 2		
Eye Irritation	Category 2A		
Skin Sensitizer	Category 1		
STOT (Respiratory)	Category 3		



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

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

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

INHALATION

Inhalation is unlikely due to low vapor pressure. If misted or handled at elevated temperatures, high concentrations may cause respiratory tract irritation. Wear appropriate respiration equipment if vapor or mist is expected. Symptoms of irritation may include coughing, mucous production and shortness of breath. This product contains talc which is currently listed by OSHA as a respirable dust hazard with an exposure limits of 2 mg/m³.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

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

SECTION 3 Composition / Information on Ingredients

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

SECTION 4 First Aid Measures

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

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

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

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

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

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

SECTION 5 Fire Fighting Measures

Conditions of Flammability

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

Suitable extinguishing media

Dry Chemical, CO₂, Foam, Water spray/water fog for cooling.

Hazardous Decomposition Products

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

Fire Fighting Instructions

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

SECTION 6 Accidental Release Measures

Personal Precautions

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

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

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

SECTION 7 Handling and Storage

Precautions for Safe Handling

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Conditions for Safe Storage

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

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

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

Engineering Controls

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

Respiratory Protections

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

Eye Protection

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

Skin and Body Protection

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Gloves should be impervious neoprene, rubber or latex. Clean equipment thoroughly after each use.

Other hygienic practices

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

OTHER WORK PRACTICES

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

SECTION 9 Physical and Chemical Properties

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

SECTION 10 Stability and Reactivity

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

Conditions to Avoid

Avoid extreme heat.

Materials to Avoid

Avoid contact with oxidizing agents.

Hazardous Decomposition Products

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

SECTION 11 Toxicological Information

<p>Toxicity Data Based on DESMOPHEN NH 1520</p> <p>Acute Toxicity Oral LD50 Rat > 200 mg/kg Dermal LD50 Rat > 2,000 mg/kg Inhalation LC50 Rat > 4,224 mg/m³</p> <p>Skin Corrosion/Irritation Skin Rabbit Moderate skin Irritant</p> <p>Serious Eye Damage/Eye Irritation Eye Rabbit Non-irritating</p> <p>Respiratory or Skin Sensitization Dermal Guinea Pig Sensitizer</p> <p>Mutagenicity Genetic Toxicity in Vitro: Ames test: negative (Salmonella typhimurium)</p> <p>Toxicity Data Based on Aliphatic Carboxylic Ester</p> <p>Acute Toxicity Oral LD50 Rat 1,780 mg/kg</p>	<p>Toxicity Data Based on Aspartic Ester</p> <p>Acute Toxicity Oral LD50 Rat > 2,000 mg/kg Dermal LD50 Rat > 2,000 mg/kg Inhalation LC50 Rat 4,224 mg/m³</p> <p>Skin Corrosion/Irritation Skin Rabbit Moderate skin Irritant</p> <p>Serious Eye Damage/Eye Irritation Eye Rabbit Non-irritating</p> <p>Respiratory or Skin Sensitization Dermal Guinea Pig Sensitizer</p> <p>Mutagenicity Genetic Toxicity in Vitro: Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)</p> <p>Carcinogenicity IARC: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH. NTP: During normal processing, no component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.</p>
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SECTION 12 Ecological Information

Aquatic Ecotoxicity Desmophen NH1520

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

Biodegradability
 13% Not readily biodegradable. Aerobic exposure time 28 d

Bioaccumulative potential
 No data available

Mobility in soil
 No data available

SECTION 13 Disposal Considerations

Waste Disposal

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

SECTION 14 Transport Information

DOT (US)

Not regulated by DOT

IMDG

Not regulated by IMDG

IATA

Not regulated by IATA

SECTION 15 Regulatory Information

TSCA INVENTORY STATUS

All components are listed or exempt

OSHA HAZARDS

Skin, Eye and Respiratory Irritant, Skin Sensitizer

	HMIS Classification	NFPA Rating
Health Hazard;	2	2
Flammability	1	1
Physical Hazards	0	0

SARA TITLE III: Section 311/312 Hazard Class

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

SARA TITLE III: Section 313 (40CFR370)

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

CERCLA Information (40CFR302.4)

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

California Proposition 65 Information:

This product does not contain, or may contain substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

SECTION 16 Other Information

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

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

MATERIAL SAFETY DATA SHEET

Flakes/Chips

1. PRODUCT and COMPANY INFORMATION

Product Name: Chips/Flakes
Manufacturer: CHIPS UNLIMITED, INC.
Address: 1824 East 6th Street
Tempe, Arizona 85281 U.S.A.
Telephone: 877-502-4477 • 480-968-1550
Internet: www.chipsunlimited.com

MADE IN THE U.S.A.

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS Number</u>	<u>Concentrate</u>
Polyvinyl Acetate	CAS#9003-20-7	12 - 22%
Barium Sulfate	CAS#7727-43-7	65 - 85%
(Material is stable – Hazardous polymerization will not occur.)		
Talc	CAS#14807-96-6	2 - 10%
Potassium TriPolyPhosphate	CAS#13845-36-8	<.15%
Titanium Dioxide	CAS#13463-67-7	1 - 10%
(Not used in black, dark blue, dark green or dark brown colors.)		
Carbon Black (Black Chips Only)		± .5%

Additionally, Carbon Black CAS#1333-86-4 and various Copper Compounds are used to achieve other final color. When used, only a trace (± .1%) remains.

3. HAZARDS IDENTIFICATION (Hazard Material Identification System)

Effects of Overexposure

Health – 0; Flammability – 1 (Minimal); Reactivity – 0; Personal Protection – E (Dust Resp).

Inhalation: The dust may cause respiratory irritation with coughing and shortness of breath. The chips/dust are not likely to be hazardous to the skin.

Eye Contact: The dust may be irritating to the eye.

4. FIRST AID MEASURES

Emergency and First Aid Procedures

Inhalation: Remove affected party/parties to an area with plenty of fresh air. If effects persist call a physician.

Eye and Skin Contact: Flush affected area with plenty of water for about 10 to 15 minutes. Wash affected skin area with soap and water.

5. FIRE FIGHTING MEASURES

Fire and explosive properties: This product is not known to present any fire hazard.

6. ACCIDENTAL RELEASE MEASURES

Sweep up and/or shovel or use vacuum to clean up spillage. Deposit into covered container for disposal. All material should then be disposed of in accordance with pertinent Federal, State and Local regulations.

7. HANDLING AND STORAGE

Handling: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Store in a dry area. Keep containers closed and protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use mechanical ventilation (dilution and local exhaust) to control exposure.

Eye Protection: Safety glasses with side shields.

Skin and Body Protection: Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential.

Hand Protection: Impervious gloves.

Respiratory Protection: In case of exposure to high levels of airborne dust, wear a respirator in compliance with national legislation.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure: This product does not present any particular risk for the environment. Refer to applicable national, state and local regulations prior to washing in drain.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: N/A

Vapor Pressure: Not Volatile

Vapor Density: Not Volatile

Specific Gravity (H₂O = 1): 1.1 – 1.2

Evaporation Rate (Butyl Acetate=1): Not Volatile

Appearance: Various colored flakes with color depending upon specific tints used in formula.

10. STABILITY AND REACTIVITY

Conditions contributing to instability: Product is stable but will react violently with sulfuric acid or alkali materials such as sodium.

Incompatibility: Not available/None known.

Conditions contributing to hazardous polymerization: None.

11. TOXICOLOGICAL INFORMATION

Chronic Toxicity: This product is not listed as a carcinogen by the IARC, NTP or OSHA.

No specific testing for irritation has been done.

12. ECOLOGICAL INFORMATION

No ecological testing has been done on this product.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local State and National regulations.

14. TRANSPORTATION INFORMATION

Not Regulated – Ship as Class 60.

15. REGULATORY INFORMATION

U.S. Toxic Substances Control Act: Compliant with regulations.

Sara Title III Section 312; Section 313: Not hazardous.

California Proposition 65: No ingredients known to be present that causes cancer, birth defects or reproductive hazards.

Canadian Domestic Substances List: All components in this product are on the Canadian Domestic Substances List or are exempt from listing.

16. OTHER INFORMATION

User's responsibility/disclaimer of liability: *As the conditions or methods of use are beyond our control, Chips Unlimited, Inc. does not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and local regulations remains the responsibility of the user.*

Date Prepared: July 1990

Date Revised: March 2001, November 2001, September 2002, June 2005, November 2005

Date Reviewed: March 2009

SECTION 1 Product and Company Information

PRODUCT NAME: SeamTek® Topcoat Resin TRP354 (all colors) Chemtrec
GENERIC NAME: Pigmented Epoxy Resin 24 Hour Emergency Number 1-800-424-9300
Information Number: 1-800-666-6216
DISTRIBUTOR: LSP Performance Resins
 124 Speer Road
 Chestertown, MD 21620
 Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

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

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

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

Pictogram:



Signal Word Danger

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

SECTION 3 Composition / Information on Ingredients

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

SECTION 4 First Aid Measures

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

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

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

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

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

SECTION 5 Fire Fighting Measures

Conditions of Flammability

Not flammable or combustible

Suitable Extinguishing Media

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

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions – Carbon Oxides

Fire Fighting Instructions

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

SECTION 6 Accidental Release Measures

Personal Precautions

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

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

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

SECTION 7 Handling and Storage

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

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

Conditions for Safe Storage

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

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Hazardous Component	PEL	STEL	TLV	Other
Diglycidyl ether bisphenol A epoxy resin	NE	NE	NE	NE
Aliphatic epoxide	NE	NE	NE	NE
Salt of unsat'd amides and acidic esters	NE	NE	NE	NE
Barium sulfate	10 mg/m3	NE	10 mg/m3	NE
Alpha hydroxide toluene	NE	NE	NE	NE
Methyl n-amyl ketone	NE	NE	NE	NE

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

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

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

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

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

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

SECTION 9 Physical and Chemical Properties

Appearance	
Form	Viscous Liquid
Color	various
pH	Not available
Melting/Freezing Temperature	N/A
Boiling Point	N/A
Flash Point	>200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	Not available
Vapor Density (air=1)	Not available
Specific Gravity (water=1 @39.2F)	1.4
Evaporation Rate (Bac=1)	None
Odor	Mild, sweet
Odor threshold	Not available

SECTION 14 Transport Information

DOT (US)
Not Regulated

IMDG
Not Regulated

TDG
Not Regulated

SECTION 15 Regulatory Information

TSCA INVENTORY STATUS
All components are listed or exempt

OSHA HAZARDS

Skin Sensitizer	Irritant	
Corrosive Material		

HMIS Classification		NFPA Rating
Health Hazard;	1	1
Flammability	1	0
Physical Hazards	0	0

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

SARA TITLE III: Section 313 (40CFR370)
Barium sulfate is listed in SARA III, part 372, section 313

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

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

SECTION 16 Other Information

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

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

LSP PERFORMANCE RESINS
800.638.9874



124 Speer Road
FAX 410.778.3625

Chestertown, MD 21620
web www.lspinc.com

SECTION 1 Product and Company Information

PRODUCT NAME: SeamTek® UV13 Clear surface Coat GENERIC NAME: Vinyl ester resin DISTRIBUTOR: LSP Performance Resins 124 Speer Road Chestertown, MD 21620	Chemtrec 24 Hour Emergency Number 1-800-424-9300 Information Number: 1-800-666-6216
Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act	

SECTION 2 Hazards Identification

Emergency Overview – no known huma or animal health effects dada – these are expectations OSHA Hazardous Target Organ Effect: Skin Sensitizer, Irritant Target Organs: Respiratory, eyes, Skin Physical Appearance: Viscous liquid Immediate Concerns: Skin Irritation	Potential Health Effects Skin: Will cause irritation and dermatitis, repeated overexposure will cause dermatitis and sensitization. Sensitized persons may experience rapid irritation of skin upon exposure. Inhalation and Ingestion: Irritation to system	
Carcinogenicity: Not listed by NTP Not Listed by IARC Not Listed by OSHA	Reproductive Toxicity Reproductive Effects : Not Available Teratogenic Effects: Not Available	Signs and Symptoms of Overexposure: Irritation of Skin, Medical Conditions Aggravated: Allergy, Skin Disorders
GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS		
Health	Environmental	Physical
Acute Toxicity, Oral Skin Irritant Serious Eye Damage Skin Sensitization	Category 5 Category 2 Category 1 Category 1 Not Classified	Not Classified
Pictogram: <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;">   </div>		
Signal Word Danger		
Hazard Statements	Precautionary Statements	
H303 Maybe harmful if swallowed H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage	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.	

SECTION 3 Composition / Information on Ingredients

Chemical Name	CAS	Wt%
Unsaturated Vinyl ester Resin	See Index	Ap 25-85
Monomer(s)	See index	Ap 15-75

SECTION 4 First Aid Measures

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

SKIN CONTACT: Get medical attention immediately. Flush contaminated skin with plenty of WATER. Do NOT wash with solvents. Wash contaminated clothing thoroughly with water before removing it or wear gloves. Continue to rinse for at least 15 minutes. If sticky, use waterless cleaner first. May cause irritation and allergic reaction. Seek medical advice if irritation develops or persists.

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

INGESTION: If large quantity swallowed, give lukewarm water (pint) if victim is conscious. Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting as risk of damage to lungs exceeds poisoning risk. Never give anything by mouth to an unconscious person.

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

SECTION 5 Fire Fighting Measures

Conditions of Flammability

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

Suitable Extinguishing Media

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

Hazardous Decomposition Products

Hazardous decomposition products formed under fire conditions – Carbon Oxides

Fire Fighting Instructions

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

SECTION 6 Accidental Release Measures

Personal Precautions

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

Environmental Precautions

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

Methods and Materials for Containment and Cleaning Up

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

SECTION 7 Handling and Storage

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

Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear

appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Conditions for Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10) and food and drink. Avoid exposure to sources of UV light. Store out of direct sunlight. Check inhibitor content often, adding to bulk liquid if needed. Do not blanket or mix with oxygen free gas as it renders inhibitor ineffective. Do not store below 32F – inhibitor can separate as a solid. If frozen, warm and remix material gently (<90F) . Prevent moisture contact. Keep container tightly closed and sealed until ready for use. Use only non sparking tools. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Hazardous Component	PEL	STEL	TLV	Other
	NE	NE	NE	NE
	NE	NE	NE	NE
	NE	NE	NE	NE
	NE	NE	NE	NE
	NE	NE	NE	NE

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

PERSONAL PROTECTIVE EQUIPMENT A properly fitted, NIOSH/MSA approved respiratory protection equipment is recommended. Respirator selection must be based on known or anticipated exposure levels, the hazards or the product and the safe working limits of the selected respirator.

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

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

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

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

SECTION 9 Physical and Chemical Properties

Appearance	
Form	Viscous Liquid
Color	Straw to light yellow
pH	Not available
Melting/Freezing Temperature	Na
Boiling Point	Na
Flash Point	> 95 C/ 200 F
Ignition Temperature	Not available
Autoignition Temperature	Not available
Lower explosive limit; na	Upper explosive limit: na
Vapor Pressure	Na

Material Safety Data Sheet		UV13
Effective Date: 01/05/11	Previous Revision date: 00/00/0000	Date Printed: 3/19/2015

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

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

SECTION 11 Toxicological Information	
Acute Toxicity Oral LD50 . Dermal LD50 Inhalation LC50 No data available Skin Corrosion/Irritation Skin Irritant Serious Eye Damage/Eye Irritation Eye Irritant Eyes Rabbit Respiratory or Skin Sensitization May cause skin or respiratory sensitization Mutagenicity	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 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		
Flammability	1		0
Physical Hazards	2		0

NFPA Rating

SARA TITLE III: Section 311/312 Hazard Class

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

SARA TITLE III: Section 313 (40CFR370)

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

CERCLA Information (40CFR302.4)

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

California Proposition 65 Information:

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

SECTION 16 Other Information

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

UTEK HD, MD, TL, SL COLOR PACK

SAFETY DATA SHEET
Effective Date 04/22/16

SECTION 1 Product and Company Information

PRODUCT NAME: UTEK SL, HD, MD, TL, SL Color pack
Colorant for two component cementitious urethane

Chemtrec
24 Hour Emergency Number 1-800-424-9300
Information Number: 1-800-666-6216

DISTRIBUTOR: LSP Performance Resins
124 Speer Road
Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

Emergency Overview	HAZARD STATEMENT	
<p>GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS</p> <p>Specific target organ toxicity – single exposure- Respiratory tract irritation- Category 3 Skin Corrosive – Category 1 Skin Sensitizer – Category 1 Serious Eye Damage/Eye Irritation – Category 1 Carcinogenicity – Category 1</p>		
Health	Environmental	Physical
None applies	Not Classified	Not Classified
Pictogram:		Signal Word: None Applies
Hazard Statements	Precautionary Statements	
No hazard statements apply	General; precaution: Observe good industrial hygiene practices P501 Dispose of contents/container in accordance with local, regional, and federal regulations	

SECTION 3 Composition / Information on Ingredients

Chemical Name	CAS	Wt%
None applies		

No further information available for this product

SECTION 4 First Aid Measures

ADVISE TO PHYSICIANS : NO DATA AVAILABLE ON THIS PRODUCT

First Aid - Eye Contact: Hold open eyelids and flush with copious amounts of water for several minutes. Check for and remove any contact lenses if easy to do. Continue rinsing. If irritation persists, get medical attention/advice.

First Aid - Skin Contact: Wash with plenty of soap and water. If skin irritation or rash develops: get medical advice/attention. Take off contaminated clothing and wash before reuse,

First Aid - Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists

First Aid - Ingestion:. Rinse mouth with water.. Consult Physician.

UTEK HD, MD, TL, SL COLOR PACK

SAFETY DATA SHEET
Effective Date 04/22/16

SECTION 5 Fire Fighting Measures

Flash Point, F: N/A
(Setaflash)

Lower Explosive Limit, %: N/A
Upper Explosive Limit, %: N/A

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use high pressure water jet as this may spread the area of the fire.

Unusual Fire And Explosion Hazards: Not expected to be a fire hazard

Special Firefighting Procedures: Not expected to be a fire hazard due to high water content. If involved in a fire use precautions for the surrounding materials.

SECTION 6 Accidental Release Measures

Personal Precautions: No data available for this product.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.

Steps To Be Taken If Material Is Released Or Spilled: Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent material; collect into suitable waste disposal containers. Wash spillage site with large amounts of water. Dispose of in accordance with applicable local and federal environmental control laws and regulations.

SECTION 7 Handling and Storage

Handling: Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage: Do not store near incompatibles (strong oxidizers, acids, alkalis). Keep container tightly closed when not in use to prevent contamination from environmental moisture.

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Engineering Controls: Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne level requirements or guidelines, general ventilation should be sufficient for most operations.

Hazardous Component	PEL	STEL	TLV	Other

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use a NIOSH/MHSA approved respirator with organic vapor cartridge.

Skin Protection: Wear suitable protective clothing. Wash contaminated clothing before reuse.

Eye Protection: Use protective goggles.

Other protective equipment: Type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Hygienic Practices: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

SECTION 9 Physical and Chemical Properties

Form	Viscous liquid
Color	varies
pH	N/A
Melting/Freezing Temperature	Not determined
Boiling Point	>225F

UTEK HD, MD, TL, SL COLOR PACK

SAFETY DATA SHEET
Effective Date 04/22/16

Ignition Temperature	Not determined
Flash Point Lower explosive limit; na	Not determined
Vapor Pressure	N/P
Vapor Density (air=1)	Heavier than air
Specific Gravity (water=1 @39.2F)	
Evaporation Rate (Bac=1)	Slower than ether
Odor	Mild, characteristic
Odor threshold	Not available
Percent Volatiles	N/P
Relative Density	1.9536
Solubility	Slight in water

SECTION 10 Stability and Reactivity

THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS

CONDITIONS AND MATERIALS TO AVOID - Avoid oxidizing materials, acids, and bases. Avoid unintended contact with amines. Avoid elevated temperatures and sources of ignition,

HAZARDOUS DECOMPOSITION PRODUCTS NONE UNDER NORMAL CONDITIONS. INCOMPLETE COMBUSTION MAY GENERATE CARBON MONOXIDE, CARBON DIOXIDE.

SECTION 11 Toxicological Information

Local effects

Acute Effects

**Chronic effects
Carcinogenicity**

Eye Contact: May cause eye irritation. Corneal injury is unlikely.
 Skin Contact: Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness.
 Inhalation: This product is of low volatility and not expected to be a major inhalation hazard.
 Ingestion: Ingestion may cause gastrointestinal tract irritation.
 Target Organ: Not classified with regard to specific target organs

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGRH. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Germ cell mutagenicity- No data available
 Reproductive toxicity- No data available
 TOXICITY values- No data available for this product.

SECTION 12 Ecological Information

Persistence and degradability	Not determined	Other Adverse Effects:	Not known
Bio-accumulative Potential:	Not determined	Ecotoxicological other information:	No data
Mobility in soil:	Not Determined		

SECTION 13 Disposal Considerations

Dispose of in accordance with State, Local, and Federal Environmental regulations. Use licensed disposal facility.

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SECTION 14 Transport Information

DOT Proper Shipping Name:	Not Regulated	Packaging Group:	N/A	Marine Pollutant :	No
DOT Hazard Class:	None	Hazard Subclass:	N/A		
DOT UN/NA Number:	None	Resp. Guide Page:	N/A		
General DOT IATA:	Not Regulated as Dangerous Goods				

SECTION 15 Regulatory Information

CERCLA - SARA HAZARD CATEGORY

US Regulations: All components of this product are listed on or exempt from the TSCA Inventory

SARA SECTION 312/ 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

- FIRE: no
- PRESSURE GENERATING: No
- REACTIVITY: No
- ACUTE: No
- Chronic: No

313 Reportable Ingredients None
302/304 Emergency Plan: No data available for this product

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
No TSCA 12(B) Substances exist in this product

U.S. STATE REGULATIONS AS FOLLOWS:

NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

MASSACHUSETTS RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

Other Government Regulations – No other information is available

INTERNATIONAL REGULATIONS AS FOLLOWS: CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

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SECTION 16 Other Information

HMIS Ratings**Health:** **Flammability:** **Reactivity:** **Personal Protection:****Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief accurate. Manufacturer and distributor make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances and with respect to liability for reliance thereon. The information contained on this SDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to ensure that he/she has all of the current data and SDS relevant to the material thereon and to comply with all Federal, State and Local regulations. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material.

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

UTEK SL, HD, MD Component A

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SECTION 1 Product and Company Information

PRODUCT NAME: UTEK SL, HD, MD Component A Chemtrec
24 Hour Emergency Number 1-800-424-9300
Information Number: 1-800-666-6216

DISTRIBUTOR: LSP Performance Resins
124 Speer Road
Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

Emergency Overview OSHA Hazardous		HAZARD STATEMENT H316 Causes mild skin irritation	
GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS			
P202 Do not handle until all safety precautions have been read and understood			
P391 Collect spillage			
P501 Dispose of contents/container in accordance with local, regional, and federal regulations			
P264 Wash all contacted body parts thoroughly after handling			
P273 Avoid release to the environment			
Health		Environmental	Physical
Skin Irritant Respiratory Irritant		Not Classified	Not Classified
Pictogram:		Signal Word: WARNING	
			
Hazard Statements		Precautionary Statements	
H316 Causes mild skin irritation		P202 Do not handle until all safety precautions have been read and understood P391 Collect Spillage P501 Dispose of contents/container in accordance with local, regional, and federal regulations P264 Wash all contacted body parts thoroughly after handling P273 Avoid release to the environment	

SECTION 3 Composition / Information on Ingredients

Chemical Name	CAS	Wt%
Benzyl Butyl 1,2-cyclohexyldicarboxylate	1200806-67-2	20-30 %
Terpineol	8000-41-7	0-3%

SECTION 4 First Aid Measures

ADVISE TO PHYSICIANS : NO DATA AVAILABLE ON THIS PRODUCT

First Aid - Eye Contact: Hold open eyelids and flush with copious amounts of water for several minutes. Remove contacts, if present and easy to do. Continue rinsing. If irritation persists, get medical attention/advice.

First Aid - Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.

First Aid - Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical

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attention if breathing difficulty persists

First Aid - Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult Physician,

SECTION 5 Fire Fighting Measures

Flash Point, F: N/A
(Setaflash)

Lower Explosive Limit, %: N/A
Upper Explosive Limit, %: N/A

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use high pressure water jet as this may spread the area of the fire.

Unusual Fire And Explosion Hazards: Closed containers may rupture (due to build up in pressure) when exposed to extreme heat.

Special Firefighting Procedures: Not expected to be a fire hazard due to high water content. If involved in a fire, use precautions for surrounding materials.

SECTION 6 Accidental Release Measures

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled material if possible. Absorb with materials such as: Sand, Propylene fiber products, Polyethylene fiber products, Remove residual with soap and hot water. Collect in suitable and properly labeled containers. Residual can be removed with solvent. Solvents are not recommended for clean-up unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent Safety Data Sheet for handling information and exposure guidelines.

SECTION 7 Handling and Storage

Handling: Avoid prolonged or repeated contact with skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage: Do not store near incompatibles (strong oxidizers, acids, alkalis). Keep containers tightly closed when not in use to prevent contamination from environmental moisture.

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Engineering Controls: Ventilation: use local exhaust ventilation, or other engineering controls to maintain airborne levels

Hazardous Component	PEL	STEL	TLV	Other
Benzyl Butyl 1,2-cyclohexyldicarboxylate	Not est.,	Not Est.	Not est,	1200806—67-2
Terpineol			ACGIH	TWA 20 ppm

requirements or guidelines, general ventilation should be sufficient for most operations.

Respiratory Protection: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use NIOSH/MHSA approved respirator with organic vapor cartridge.

Skin Protection: Wear suitable protective clothing. Wash contaminated clothing before reuse.

Eye Protection: Protective Goggles.

Other protective equipment: Type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Hygienic Practices: Handle in accordance with good industrial hygiene and safety practice. Always wash your hands immediately after handling this product, and once again before leaving the workplace. Keep food and drink out of work areas.

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SECTION 9 Physical and Chemical Properties

Form	Viscous liquid
Color	Varies
pH	N/DA
Melting/Freezing Temperature	N/A
Boiling Point	
Ignition Temperature	Not available
Flash Point	Not determined
Lower explosive limit; na	
Vapor Pressure	N/P
Vapor Density (air=1)	Heavier than air
Specific Gravity (water=1 @39.2F)	
Evaporation Rate (Bac=1)	Slower than ether
Odor	Mild, Characteristic
Odor threshold	Not available
Percent Volatiles	N/P
Relative Density	0.9969
Solubility	Slight in Water

SECTION 10 Stability and Reactivity

THIS PRODUCT IS STABLE UNDER NORMAL CONDITIONS

CONDITIONS AND MATERIALS TO AVOID - **Avoid elevated temperatures and sources of ignition**

Incomparable material – oxidizing materials. Avoid contact with Acids, Bases, Avoid unintended contact with amines

HAZARDOUS DECOMPOSITION PRODUCTS

Will not occur under normal conditions. Incomplete combustion may generate carbon monoxide, carbon dioxide.

SECTION 11 Toxicological Information

Local effects	Eye Contact: May Cause eye irritation, corneal injury is unlikely
Acute Effects	Skin Contact: Prolonged contact may cause skin irritation with local redness. Repeated contact may cause skin irritation with local redness. Inhalation: This product is of low volatility and not expected to be a major inhalation hazard Ingestion: Ingestion may cause gastrointestinal tract irritation.
Chronic effects	Target Organ: Not classified with regard to specific target organs
Carcinogenicity	Damage to fetus possible. Suspected human reproductive toxicant Toxicity Values: No data available for this product

SECTION 12 Ecological Information

Persistence and degradability	Not determined	Other Adverse Effects:	Not known
Bio-accumulative Potential:	Not determined	Ecotoxicological other information:	Not determined
Mobility in soil:	Not Determined		

SECTION 13 Disposal Considerations

Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste. Use licensed disposal facility.

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SECTION 14 Transport Information

DOT Proper Shipping Name:	Not Regulated	Packaging Group:	N/A
DOT Hazard Class:	None	Hazard Subclass:	N/A
DOT UN/NA Number:	None	Resp. Guide Page:	N/A
General DOT IATA:	Not Regulated as Dangerous Goods		

SECTION 15 Regulatory Information

CERCLA - SARA HAZARD CATEGORY

US Regulations: All components of this product are listed on or exempt from the TSCA Inventory

IMMEDIATE HEALTH HAZARD

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Section 313 Substances exist in this product

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(B) Substances exist in this product

U.S. STATE REGULATIONS AS FOLLOWS: NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Terpineol	8000-41-7

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Terpineol	8000-41-7

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No California Proposition 65 Carcinogens exist

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

No California Proposition 65 Reproductive Toxins exist

INTERNATIONAL REGULATIONS AS FOLLOWS: CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

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SECTION 16 Other Information

HMIS Ratings**Health:** **Flammability:** **Reactivity:** **Personal Protection:****VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0****REASON FOR REVISION:** Changes made in Section(s): 2, 9, 11, and 15**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief accurate. Manufacturer and distributor make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances and with respect to liability for reliance thereon. The information contained on this SDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to ensure that he/she has all of the current data and SDS relevant to the material thereon and to comply with all Federal, State and Local regulations. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material.

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

UTEK SL, HD, MD Component B
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SECTION 1 Product and Company Information

PRODUCT NAME: UTEK SL, HD, MD Component B
 Isocyanate component of cementitious urethane topping

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

Chemtrec
 24 Hour Emergency Number 1-800-424-9300
 Information Number: 1-800-666-6216


SECTION 2 Hazards Identification

Emergency Overview OSHA Hazardous	HAZARD STATEMENT H315 Causes skin irritation Serious Eye Damage Respiratory irritation
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GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Specific target organ sensitivity – single exposure- Respiratory Tract irritation – Category 3
 Acute Toxicity – Inhalation- Category 4
 Skin Irritant- Category 2
 Skin Sensitizer – Category 1
 Serious Eye Damage/ eye Irritation – Category 2
 Specific target organ toxicity – multiple exposures – Respiratory tract irritation- Category 3
 Respiratory Sensitizer – Category 1

Health	Environmental	Physical
Skin Irritant Respiratory Irritant	Not Classified	Not Classified

Pictogram:  Signal Word: DANGER

Hazard Statements	Precautionary Statements
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled H302 Harmful if swallowed H315 Causes skin irritation H317 May cause an allergic skin reaction H319 Causes serious eye irritation H332 Harmful if inhaled H373 Causes damage to organs through prolonged or repeated exposure	P285 In case of inadequate ventilation wear respiratory protection P260 Do not breathe dust/fume/gas/mist/vapors/spray P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest at a position that is comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell P202 Do not handle until all safety precautions have been read and understood P403+P233 Store in a well ventilated place. Keep container tightly closed P405 Keep locked up P337+P313 If eye irritation persists: Get medical advice/attention P362 Take off contaminated clothing and rinse before re-use P501 Dispose of contents/container in accordance with local, regional, and federal regulations

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	<p>P264 Wash all contacted body parts thoroughly after handling P270 Do not eat, drink or smoke when using this product P271 Use only outdoors or in a well-ventilated area P272 Contaminated work clothing should not be allowed out of the workplace P280 Wear protective gloves/protective clothing/eye protection/face protection P302+352 IF ON SKIN: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P308+ P313 If exposed or concerned: Get medical advice/attention P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p>
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SECTION 3 Composition / Information on Ingredients

Chemical Name	CAS	Wt%
Bis (4-isocyanatophenyl) methane	101-68-8	45-60 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	25-40 %
MDI Mixed Isomers	26447-40-5	7-15 %

No further information available for this product

SECTION 4 First Aid Measures

ADVISE TO PHYSICIANS : NO DATA AVAILABLE ON THIS PRODUCT

First Aid - Eye Contact: Hold open eyelids and flush with copious amounts of water for several minutes. Remove contacts, if present and easy to do. Continue rinsing. If irritation persists, get medical attention/advice.
First Aid - Skin Contact: Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention. Take off contaminated clothing and wash before reuse.
First Aid - Inhalation: If breathing is difficult, oxygen should be administered by qualified personnel. Consult a physician after significant exposure. Move person to fresh air. If unconscious, place in recovery position and seek medical advice.
First Aid - Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with plenty of water. Consult Physician.

SECTION 5 Fire Fighting Measures

Flash Point, F: N/A
(Setaflash)

Lower Explosive Limit, %: N/A
Upper Explosive Limit, %: N/A

Suitable Extinguishing Media: Alcohol resistant foam. Carbon Dioxide (CO₂), dry chemical, dry sand; use water to keep containers cool.

Unsuitable Extinguishing Media: Do not use high pressure water jet as this may spread the area of the fire.

Unusual Fire And Explosion Hazards: Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritation, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

Special Firefighting Procedures: Wear self-contained breathing apparatus (SCBA) in positive pressure mode and full protective clothing.

SECTION 6 Accidental Release Measures

Personal Precautions: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment.

Environmental Precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater

Steps To Be Taken If Material Is Released Or Spilled: Minor Spill or Leak (Wet surface); Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated.

Neutralization solution: A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

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SECTION 7 Handling and Storage

Handling: A Use only in well-ventilated areas. Avoid contact with skin and eyes. Avoid breathing vapors and/or aerosols. Emergency showers and eye wash stations should be readily accessible. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage: Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected. Storage Temperature: Minimum 5°C (40° F) Maximum 40° C (104° F)

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Engineering Controls: Ventilation: use local exhaust ventilation, or other engineering controls to maintain airborne levels requirements or guidelines. GENERAL VENTILATION MAY NOT BE SUFFICIENT.

Hazardous Component	PEL	STEL	TLV	Other
Bis (4-isocyanatophenyl) methane	Not Est	Not Est.	ACGIH; TWA 0.005 ppm NIOSH REL; TWA 0.005 ppm	101-68-8
Isocyanic acid, polymethylenepolyphenylene ester	Not Est	Not Est	Not Est	9016-87-9
MDI Mixed Isomers	Not Est	Not Est	Not Est	

Respiratory Protection: For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where levels are unknown or immediately dangerous to life or health (IDLH), use NIOSH certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied- air respirator (SAR) with escape provisions. When atmospheric levels may exceed the occupational exposure limit (PEL or TLV) NIOSH-certified air-purifying respirators equipped with an organic vapor sorbent and particulate filter can be used as long as appropriate precautions and change out schedules are in place.

Skin Protection: Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact. Gloves, long sleeved shirts and pants. Nitrile rubber gloves, butyl rubber gloves, neoprene gloves.

Eye Protection: Full face shield with goggles underneath

Other protective equipment: Type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Hygienic Practices: H Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating. Wash contaminated clothing before reuse. Eye wash stations and emergency showers should be available.

SECTION 9 Physical and Chemical Properties

Form	liquid
Color	Dark amber/brown
pH	N/DA
Melting/Freezing Temperature	N/A
Boiling Point	
Ignition Temperature	Not available
Flash Point	Not determined
Lower explosive limit; na	
Vapor Pressure	N/P
Vapor Density (air=1)	Heavier than air

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Specific Gravity (water=1 @39.2F)	
Evaporation Rate (Bac=1)	Slower than ether
Odor	Mild, Characteristic
Odor threshold	Not available
Percent Volatiles	N/P
Relative Density	1.2009
Solubility	Not determined

SECTION 10 Stability and Reactivity
<p>THIS PRODUCT IS STABLE UNDER NORMAL CONDITIONS</p> <p>CONDITIONS AND MATERIALS TO AVOID - Avoid heat, flames, and sparks. Protect from freezing</p> <p>Possibility of Hazardous reactions: Contact with moisture, other materials that may react with isocyanates, or temperatures above 350 F (177 C), may cause rapid/violent polymerization.</p> <p>Incomparable material –Water, amines, strong bases, alcohols, copper alloys.</p> <p>HAZARDOUS DECOMPOSITION PRODUCTS</p> <p>by fire and high heat: Carbon dioxide (CO₂), carbon monoxide (CO) oxides of nitrogen (NO_x), dense black smoke, Hydrogen cyanide, Isocyanate, Isocyanic Acid, other undetermined compounds.</p>

SECTION 11 Toxicological Information	
<p>Local effects</p> <p>Acute Effects</p> <p>Chronic effects</p> <p>Carcinogenicity</p>	<p>Eye Contact: May Cause eye irritation, corneal injury is unlikely</p> <p>Skin Contact: Has caused allergic skin reactions in humans. Contains component(s) which have demonstrated the potential for contact allergy in mice.</p> <p>Inhalation: Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Inhalation of aerosol may cause irritation to the upper respiratory tract. May cause nose, throat, and lung irritation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations.</p> <p>Ingestion: Ingestion may cause gastrointestinal tract irritation.</p> <p>Target Organ: STOT – single exposure ; May cause respiratory irritation STOP – repeated exposure</p> <p>REMARKS: may cause damage to organs through prolonged or repeated exposure.</p> <p>Chronic effects: This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. May cause allergic skin reaction, eye disease, skin disorders and allergies. This material can produce asthmatic sensitization upon either single inhalation to a relatively high concentration or upon repeated inhalation exposure to lower concentrations. Damage to fetus possible. Suspected human reproductive toxicant</p> <p>Toxicity Values: No data available for this product</p>

SECTION 12 Ecological Information			
Persistence and degradability	Not determined	Other Adverse Effects:	Not known
Bio-accumulative Potential:	Not determined	Ecotoxicological other information:	Not determined
Mobility in soil:	Not Determined		

SECTION 13 Disposal Considerations
Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste. Use licensed disposal facility.

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SECTION 14 Transport Information

DOT Proper Shipping Name: Not Regulated Packaging Group: N/A
 DOT Hazard Class: None Hazard Subclass: N/A
 DOT UN/NA Number: None Resp. Guide Page: N/A
 General DOT IATA: Not Regulated as Dangerous Goods

SECTION 15 Regulatory Information

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

311/312 Hazard categories

FIRE: No
 PRESSURE GENERATING: No
 REACTIVITY: No
 ACUTE: Yes
 Chronic: Yes

Section 313 Reportable Ingredients

Chemical Name	CAS	Wt%
Bis (4-isocyanatophenyl) methane	101-68-8	50-55 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	35-40 %

302/304 Emergency Planning: - No reportable components

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.
 This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
 No TSCA 12(B) Substances exist in this product

CERCLA - SARA HAZARD CATEGORY

US Regulations: All components of this product are listed on or exempt from the TSCA Inventory

IMMEDIATE HEALTH HAZARD

U.S. STATE REGULATIONS AS FOLLOWS:

NEW JERSEY RIGHT-TO-KNOW

Chemical Name	CAS	Wt%
Bis (4-isocyanatophenyl) methane	101-68-8	45-60 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	25-40 %

PENNSYLVANIA RIGHT-TO-KNOW

Chemical Name	CAS	Wt%
Bis (4-isocyanatophenyl) methane	101-68-8	45-60 %
Isocyanic acid, polymethylenepolyphenylene ester	9016-87-9	25-40 %

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MASSACUSETTS RIGHT TO KNOW

Chemical Name	CAS	Wt%
Bis (4-isocyanatophenyl) methane	101-68-8	45-60 %

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

No California Proposition 65 Carcinogens exist

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

No California Proposition 65 Reproductive Toxins exist

INTERNATIONAL REGULATIONS AS FOLLOWS: CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

SECTION 16 Other Information

HMIS Ratings

Health: Flammability: Reactivity: Personal Protection:

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained herein is, to the best of our knowledge and belief accurate. Manufacturer and distributor make no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances and with respect to liability for reliance thereon. The information contained on this SDS has been compiled from information obtained from raw material suppliers and is believed to be accurate. It is the responsibility of the user to ensure that he/she has all of the current data and SDS relevant to the material thereon and to comply with all Federal, State and Local regulations. Since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material.

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


UTEK SL AGGREGATE
SAFETY DATA SHEET
 Effective Date 04/22/16

SECTION 1 Product and Company Information

PRODUCT NAME: UTEK SL AGGREGATE Chemtrec
 Filler/aggregate for cementitious urethane multi-component toppings 24 Hour Emergency Number 1-800-424-9300
Information Number: 1-800-666-6216
DISTRIBUTOR: LSP Performance Resins
 124 Speer Road
 Chestertown, MD 21620

Comments: To the best of our knowledge, this Material Safety Data Sheet conforms to the requirements of US OSHA 29 CFR1910.1200, 91/155/ECC and Canadian Hazardous Products Act

SECTION 2 Hazards Identification

Emergency Overview	HAZARD STATEMENT										
<p>GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS</p> <p>Specific target organ toxicity – single exposure- Respiratory tract irritation- Category 3 Skin Corrosive – Category 1 Skin Sensitizer – Category 1 Serious Eye Damage/Eye Irritation – Category 1 Carcinogenicity – Category 1</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%;">Health</th> <th style="width: 33%;">Environmental</th> <th style="width: 33%;">Physical</th> </tr> </thead> <tbody> <tr> <td>Respiratory Irritant</td> <td>Not Classified</td> <td>Not Classified</td> </tr> </tbody> </table> <p>Pictogram: </p> <p style="text-align: right;">Signal Word: DANGER</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 40%;">Hazard Statements</th> <th style="width: 60%;">Precautionary Statements</th> </tr> </thead> <tbody> <tr> <td> H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H335 May cause respiratory irritation H350 May cause cancer </td> <td> IF ON CLOTHING: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water P260 Do not breathe dust/fume/gas/mist/vapors/spray P202 Do not handle until all safety precautions have been read and understood P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P403+P233 Store in a well-ventilated place. Keep container tightly closed P501 Dispose of contents/container in accordance with local/regional and federal regulations P264 Wash all contacted body parts thoroughly after handling P270 Do not eat, drink, or smoke when using this product P280 Wear protective gloves/protective clothing/eye protection/face protection P308+P313 IF exposed or concerned: Get medical attention/advice P314 Get medical attention/advice if you feel ill </td> </tr> </tbody> </table>		Health	Environmental	Physical	Respiratory Irritant	Not Classified	Not Classified	Hazard Statements	Precautionary Statements	H315 Causes skin irritation H317 May cause an allergic skin reaction H318 Causes serious eye damage H335 May cause respiratory irritation H350 May cause cancer	IF ON CLOTHING: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water P260 Do not breathe dust/fume/gas/mist/vapors/spray P202 Do not handle until all safety precautions have been read and understood P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P403+P233 Store in a well-ventilated place. Keep container tightly closed P501 Dispose of contents/container in accordance with local/regional and federal regulations P264 Wash all contacted body parts thoroughly after handling P270 Do not eat, drink, or smoke when using this product P280 Wear protective gloves/protective clothing/eye protection/face protection P308+P313 IF exposed or concerned: Get medical attention/advice P314 Get medical attention/advice if you feel ill
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SECTION 3 Composition / Information on Ingredients

Chemical Name	CAS	Wt%
Quartz (Crystalline)	14808-60-7	65-70 %
Portland cement	65997-15-1	25-40 %

No further information available for this product

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SECTION 4 First Aid Measures

ADVISE TO PHYSICIANS : NO DATA AVAILABLE ON THIS PRODUCT

First Aid - Eye Contact: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.

First Aid - Skin Contact: Get medical attention immediately. Heavy exposure to Portland cement dust, wet concrete or associate water requires prompt attention. Quickly remove contaminated clothing, shoes and leather goods such as watchbands and belts. Quickly and gently blot or brush away excess Portland cement. Immediately wash thoroughly with lukewarm, gently flowing water and non-abrasive pH neutral soap. Seek medical attention for rashes, burns, irritation, dermatitis and prolonged unprotected exposures to wet cement, cement mixtures or liquids from wet cement. Burns should be as caustic burns. Portland cement causes skin burns with little warning. Discomfort or pain cannot be relied upon to alert a person of serious injury. You may not feel pain or the severity of the burn until hours after the exposure. Chemical burns must be treated promptly by a physician. In the event of any complains or symptoms, avoid further exposure.

First Aid - Inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists

First Aid - Ingestion: Do Not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Consult Physician or poison center immediately.

SECTION 5 Fire Fighting Measures

Flash Point, F: N/A
(Setaflash)

Lower Explosive Limit, %: N/A
Upper Explosive Limit, %: N/A

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use high pressure water jet as this may spread the area of the fire.

Unusual Fire And Explosion Hazards: Not flammable.

Special Firefighting Procedures: Precautionary measures- fire: Fight fire with normal precautions from a reasonable distance. Protection during firefighting: Use normal individual fire protection equipment.

SECTION 6 Accidental Release Measures

Personal Precautions: Do not breathe dust. Avoid generation of dust during clean-up of spills. Wear suitable protective clothing, gloves and eye/face protection. Use recommended respiratory protection

Environmental Precautions: No data available for this product.

Steps To Be Taken If Material Is Released Or Spilled: Avoid generation of dust during clean up of spills. Recover the product by vacuuming shoveling or sweeping. Vacuum must be fitted with HEPA filter to prevent release of particulates during clean up.

SECTION 7 Handling and Storage

Handling: Portland cement reacts chemically with water to produce calcium hydroxide which can cause severe chemical burns. Every attempt should be made to avoid skin and eye contact with cement. Do not get Portland cement inside boots, shoes or gloves. Do not allow wet, saturated clothing to remain in contact with skin. Promptly remove clothing and shoes that are dusty or wet with cement mixtures. Launder/clean clothing and footwear before reuse.

Storage: Keep Portland cement dry until used. Normal temperatures and pressure do not affect the material.

SECTION 8 Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

Engineering Controls: Ventilation: Ensure adequate ventilation, especially in confined areas. Avoid dust production.

Hazardous Component	PEL	STEL	TLV	Other
Quartz (Crystalline)	Not est,.	Not Est.	ACGIH TLV; TWA 0.025 mg/m3 NIOSH REL; TWA 0.050 mg/m3	14808-60-7
Portland Cement	OSHA PEL; TWA 5 mg/m3 (Respirable, 15 mg/m3 (Total))			65997-15-1

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Respiratory Protection: Use NIOSH/MHSA approved air-purifying respirator or supplied- air respirator where airborne concentrations of dust are expected to exceed exposure limits.

Skin Protection: Wear impervious clothing. Rubber or plastic boots. Selection of specific items such as face shield, boots, apron, or dull body suit will depend on the task. **HAND PROTECTION:** Use chemical resistant gloves. Consult glove manufacturer for recommendations. Do not rely on barrier creams in place of impervious gloves. Do not get Portland cement inside gloves, boots, or shoes. Remove clothing and protective equipment that becomes saturated with cement and immediately wash exposed area of body. suitable protective clothing. Wash contaminated clothing before reuse.

Eye Protection: Use safety glasses (With side shields) as MINIMUM protection. Goggles recommended. Wearing contact lenses when working with cement is NOT recommended.

Other protective equipment: Type and degree of personal protective equipment will depend on the specific work operation. Eye wash stations and emergency showers should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care.

Hygienic Practices: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating, Wash contaminated clothing before reuse. Eye wash stations and emergency showers should be available.

SECTION 9 Physical and Chemical Properties

Form Color pH Melting/Freezing Temperature Boiling Point	Powdered crystalline solid White >11.5 (Conc. (%w/w):1) N/A
Ignition Temperature	Not available
Flash Point Lower explosive limit; na	Not determined
Vapor Pressure	N/P
Vapor Density (air=1)	No data
Specific Gravity (water=1 @39.2F)	
Evaporation Rate (Bac=1)	No data
Odor	No data
Odor threshold	Not available
Percent Volatiles	N/P
Relative Density	2.9
Solubility	Not determined

SECTION 10 Stability and Reactivity

THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS
CONDITIONS AND MATERIALS TO AVOID - Avoid oxidizing materials, acids, aluminum and ammonium salt. Silicates dissolve readily in hydrofluoric acid producing a corrosive gas.
 Incomparable material – Reacts slowly with water forming hydrates compounds, releasing heat and producing a strong alkaline solution until reaction is substantially complete.
HAZARDOUS DECOMPOSITION PRODUCTS Quartz (Silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride. Will not occur under normal conditions. Incomplete combustion may generate carbon monoxide, carbon dioxide.

SECTION 11 Toxicological Information

Local effects	Eye Contact: Causes serious eye damage. May cause burns in the presence of moisture. Adverse symptoms may include the following: pain, watering, redness.
Acute Effects	Skin Contact: Causes skin burns.

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	<p>Inhalation: Repeated or prolonged exposure to respirable crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.</p> <p>Ingestion: Ingestion may cause gastrointestinal tract irritation.</p> <p>Target Organ: Not classified with regard to specific target organs</p> <p>Damage to fetus possible. Suspected human reproductive toxicant</p> <p>Toxicity Values: Specific organ toxicity (single exposure): May cause respiratory irritation: (Repeated exposure) Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure.</p>
<p>Chronic effects Carcinogenicity</p>	<p>Carcinogenicity: Portland cement is not classifiable as a human carcinogen. Crystalline silica is considered a hazard by inhalation. IARC has classified crystalline silica as a Group 1 substance, carcinogenic to humans. This classification is based on the findings of laboratory animal studies (inhalation and implantation) and epidemiology studies that were considered sufficient for carcinogenicity. Excessive exposure to crystalline silica can cause silicosis, a non-cancerous lung disease.</p> <p>Germ cell mutagenicity- Not classified</p> <p>Reproductive toxicity- Not classified</p> <p>TOXICITY values- Not determined</p>

SECTION 12 Ecological Information

<p>Persistence and degradability Not determined</p> <p>Bio-accumulative Potential: Not determined</p> <p>Mobility in soil: Not Determined</p>	<p>Other Adverse Effects: Not known</p> <p>Ecotoxicological other information: No data</p>
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SECTION 13 Disposal Considerations

As supplied, this product is not characteristic of a hazardous waste. Dispose of in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste. Use licensed disposal facility.

SECTION 14 Transport Information

DOT Proper Shipping Name: Not Regulated	Packaging Group: N/A	Marine Pollutant : No
DOT Hazard Class: None	Hazard Subclass: N/A	
DOT UN/NA Number: None	Resp. Guide Page: N/A	
General DOT IATA: Not Regulated as Dangerous Goods		

SECTION 15 Regulatory Information

CERCLA - SARA HAZARD CATEGORY
US Regulations: All components of this product are listed on or exempt from the TSCA Inventory

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Effective Date: 04/22/16
SARA SECTION 312/313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

FIRE: no
 PRESSURE GENERATING: No
 REACTIVITY: No
 ACUTE: Yes
 Chronic: Yes

313 Reportable Ingredients Quartz (Crystalline) 65 – 70 % CAS 14808-60-7
 302/304 Emergency Plan: No data available for this product

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.
 This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
 No TSCA 12(B) Substances exist in this product

U.S. STATE REGULATIONS AS FOLLOWS:

NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Quartz (Crystalline)	14808-60-7
Portland Cement	65997-15-1

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Quartz (Crystalline)	14808-60-7
Portland Cement	65997-15-1

MASSACHUSETTS RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Quartz (Crystalline)	14808-60-7
Portland Cement	65997-15-1

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

Quartz (Crystalline) CAS 14808-60-7

Other Government Regulations – No other information is available

INTERNATIONAL REGULATIONS AS FOLLOWS: CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

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SECTION 16 Other Information

HMIS Ratings

Health: **Flammability:** **Reactivity:** **Personal Protection:**

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

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