

# KELKEN CONSTRUCTION SYSTEMS

## Safety Data Sheet

<b>SECTION 1 - Product and Company Identification</b>				<b>Effective Date: 5/20/15</b>	
<b>Manufacturer:</b> Advance Coatings Company <b>Produced for:</b> Kelken Construction Systems Trade Name: <b>KELIGROUT Quarts</b> Chemical Name: Filled Unsaturated Polyester Resin				<b>Emergency Phone</b> 732-416-6730 (Kelken Construction) 800-424-9300 (Chemtrec 24 Hr. Emer.)  <b>Prepared By:</b> Chuncai Yang	
<b>Section 2 - Hazards Identification</b>			<b>Danger!</b>		
<b>HMIS Rating:</b>	<b>Health - 2</b>	<b>Flammability - 3</b>	<b>Reactivity - 1</b>		
<b>NFPA Codes:</b>	<b>Health - 2</b>	<b>Flammability - 3</b>	<b>Reactivity - 1</b>		
<b>Hazard Statements:</b> Harmful if inhaled Causes skin irritation and serious eye irritation May cause cancer and/or respiratory irritation Prolonged/repeated exposure may cause hearing damage Harmful to aquatic life with long lasting effects Flammable liquid and vapor			<b>Precautionary Statements:</b> No Smoking Read and understand all safety precautions & special instructions Use only outdoors or in well-ventilated areas and use protective equipment/clothing/gloves as required & eye protection Do not breathe mist, vapors, spray      Store in a well-ventilated place Do not eat, drink or smoke and keep away from heat/sparks/open flames Gound/bond containers & keep tightly closed Keep cool and avoid release to the environment Keep container closed and away from heat/spark/open flames/hot surfaces		
<b>Section 3 - Composition/Information on Ingredients</b>					
<b>Hazardous Component</b>	<b>CAS #</b>		<b>Exposure Limits</b>	<b>% by Wt.</b>	
Polyester Resin	Proprietary		None assigned	28 ± 2%	
Styrene Monomer	100-42-5		50.0 ppm ACGIH TWA 100.0 ppm ACGIH STEL	18 ± 2%	
Pigments	Proprietary		None assigned	54 ± 2%	
<b>Section 4 - First Aid Measures</b>					
<b>Inhalation:</b> If symptomatic, move to fresh air. Get medical attention if symptoms persist. <b>Eyes:</b> Immediately flush with plenty of water for at least 15 minutes. Get medical attention. <b>Skin:</b> Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. <b>Ingestion:</b> Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.					
<b>Additional protective Measures:</b> First Aid Facilities: Eye bath, safety shower, washing facilitation. Advice to Physicians: None Known					
<b>Section 5 - Fire Fighting Measures</b> Flammable Liquid Class 1C.					
<b>Extinguishing Media:</b> Water spray, dry chemical, Carbon Dioxide, Foam. <b>Protective Equipment:</b> Wear self-contained breathing apparatus and protective clothing. <b>Special Exposure Hazard:</b> Containers can build pressure if exposed to heat or fire. The heat may cause polymerization which could cause violent rupture of closed drums. Vapors from the product may form explosive mixtures with air. <b>Special Fire Fighting Procedures:</b> Use water spray to keep fire-exposed containers cool.					
<b>Section 6 - Accidental Release Measures</b>			<b>Personal Protection:</b> Wear protective clothing.		
<b>Leaks and Spills:</b> Eliminate all ignition sources. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. For large spills; flush spill area with water spray. Prevent runoff from entering drains, sewers or streams.					
<b>Section 7 - Handling and Storage</b>					
<b>Handling:</b> Material is a combustible liquid; keep away from heat, open flame, oxidizers, and other ignition sources. Avoid breathing vapors. Use protective equipment when handling. <b>Storage:</b> Store with adequate ventilation and out of direct sunlight. Bond and ground containers of this product to prevent static sparks. Store away from oxidizing agents. Always use the oldest lot first.					
<b>Section 8 - Exposure Controls/Personal Protection</b>					
<b>Engineering Control:</b> Local exhaust ventilation should be used to control the emissions of air contaminants. General dilution ventilation may assist with the reduction of air contaminant concentrations. <b>Respiratory Protection:</b> If engineering controls do not maintain airborne concentrations to an acceptable level, an approved respirator must be worn. Respirator Type: Organic vapor. If respirators are used, a					



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program should be instituted to assure compliance w/OSHA Standard 29 CFR 190.134. **Eye Protection:** Wear safety glasses w/side shields or goggles. **Ventilation Required:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory protection may be needed in special circumstances such as poorly ventilated spaces, evaporation from large surfaces, spraying, heating, etc.

### Section 9 - Physical and Chemical Properties

Appearance: Viscous liquid	Odor: Styrene odor	Physical State: Liquid
pH: Not determined	Boiling Point: 295°F	Freezing Point: Not determined
Flash Point: 89°F TCC	Vapor Pressure: 4.50 mm Hg @ 68°F	Oxidizing Properties: Reacts with strong oxidizing agents
Solubility in Water: Negligible	Density: 15.4 lb./gal.	Specific Gravity: 1.77 ± 0.2
Volatile by Weight: 18%	Viscosity 15,000 cps @ 72°F	Explosion Limits: LEL 1.1% by volume UEL 6.1% by volume
Partition Coefficient: Not Determined	Evaporation Rate: (Butyl Acetate = 1): Slower than Butyl Acetate	

### Section 10 - Stability and Reactivity

Chemical Stability: Stable	Conditions to Avoid: Heat and open flame
Incompatibility with other materials: Avoid oxidizing agents	Hazardous Polymerization: May occur

Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide and Organic Acids

### Section 11 - Toxicological Information

<u>Material</u>	<u>LD50.RAT.Oral</u>	Eye Effects: Mildly irritating, Skin Effects: Mildly irritating, Ingestion Effects: May cause nausea
Styrene	>5g/kg	Inhalation Effects: Prolonged breathing of vapors can cause headache

**Signs and Symptoms of Chronic Overexposure:** No known chronic health effects have been observed w/normal use of this product.

#### Potential Health Effects/Health Hazard Identification

**Acute Exposure:** Eye - causes irritation, Skin - causes irritation, Ingestion - may cause irritation to the gastrointestinal track, Inhalation - mucous membrane irritant.

**Chronic Exposure:** Repeated exposure to high concentrations of styrene vapor may cause nausea, loss of appetite, CNS depression, liver and kidney damage.

**Other Hazards:** Known Synergist - none known, Explosion Hazard - empty containers are dangerous; they still may contain flammable vapors. Keep away from heat, sparks, or flames. Fire Hazard - classified as flammable liquid. Corrosion Hazard - not corrosive.

Ecotoxicity: The styrene in this product is expected to be toxic to aquatic organisms.

Persistence: The organic portion of this product is expected to biodegrade readily.

### Section 13 - Disposal Considerations

**Disposal:** Discharge, treatment, or disposal may be subject to national, state and local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

### Section 14 - Transport Information

<b>DOT Shipping Information:</b>	Single unit: consumer commodity, ORM-D Bulk, UN1866, resin solution, 3 PG III
<b>IATA/ICAO Shipping Name:</b>	Single unit/Bulk: UN1866, resin solution, 3 PG III

### Section 15 - Regulatory Information

**U.S. Federal Regulations:** Toxic substances control act (TSCA) Inventory - Yes

US DOT Regulations: Hazard class: Adhesive containing a flammable liquid, ID Number: UN 1866, Packing Grp: III

### Section 16. Other Information

Workers using this product should read and understand this SDS and be trained in the proper use of this material. This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.

Information herein is accurate to the best of our knowledge. Suggestions are made without warranty or guarantee of results. Before using, the user should determine the suitability of the products for his intended use, and the user assumes the risk and liability in connection therewith. We do not suggest violation of any existing patents or give permission to practice any patented invention without license.