

# 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 <b>Trade Name:</b> <b>KELIGROUT 101-P</b> <b>Chemical Name:</b> Filled Unsaturated Polyester Resin			<b>Emergency Phone</b> 732-416-6730 (Kelken Construction Systems) 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 well-ventilated place Do not eat, drink or smoke and keep away from heat/sparks/open flames Ground/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. Flammability 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 w/air.						
<b>Special Fire Fighting Procedures:</b> Use water spray to keep fire-exposed containers cool.						
<b>Section 6 - Accidental Release Measures</b>						
<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>Personal Protection:</b> Wear protective clothing.						
<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 indoors with adequate ventilation and out of direct sunlight. Store away from oxidizing agents. Always use oldest lots first. Material should last 6 months at not over 75°F.						
<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						

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maintain airborne concentrations to an acceptable level, an approved respirator must be worn. **Respirator Type:** Organic vapor. If respirators are used, a program should be instituted to assure compliance w/OSHA Standard 29 CFR 1910.134. **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 lg. surfaces, spraying, heating, etc. **Skin Protection:** Wear impervious gloves, boots, and protective clothing appropriate for the risk of exposure.

### 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	Vapor Pressure: 4.50 mm Hg @ 68°F	
Flash Point: <u>Before Cure</u> : Pigments 54% noncombustible, Polyester Resin 28% over 380°F, Styrene Monomer 18% 89°F TCC	Solubility in Water: Negligible		Density: 15.4 lb./gal.
<b>After Cure: over 380°F</b>	Specific Gravity: 1.77 ± 0.02		Partition Coefficient: Not Determined
Oxidizing Properties: Reacts with strong oxidizing agents		Evap. Rate: (Butyl Acetate=1): Slower than Butyl Acetate	
Volatile by Weight: 18%	Viscosity: 200,000 cps @ 72°F	Explosion Limits: LEL 1.1% by volume UEL 6.1% by volume	

**Section 10 - Stability and Reactivity** Chemical Stability: Unstable in extreme heat such as in fire. Conditions to Avoid: Heat and open flame.

Incompatibility with other materials: Avoid oxidizing agents. Hazardous Decomposition Products: Carbon Dioxide, Carbon Monoxide and Organic Acids. Hazardous Polymerization: May occur

### Section 11 - Toxicological Information

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

**Signs and Symptoms of Chronic Overexposure:** No known chronic health effects have been observed with 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:** Long-term exposure to excess styrene vapor may cause nausea, loss of appetite, CNS depression and general weakness. **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

### Section 12 - Ecological Information Ecotoxicity:

Ecotoxicity: The styrene in this prod. is expected to be toxic to aquatic organisms. Persistence: This product is expected to biodegrade.

### 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** United Nations Number: UN 1866

Packing Group: 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 Flammable Liquid

### 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 w/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 this 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.