



**Safety Data Sheet**  
**Akonaflex™ Pro Self-Leveling Expansion**  
**Joint Filler**  
© Akona Manufacturing LLC.  
Version 1.0

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**Emergency Telephone Number:**  
651-688-9116  
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651-905-8137

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**Section 1: Product Identification**

Product Type: Sealant & Adhesive

**Akona Product Name:**  
Akonaflex™ Pro Self-Leveling Expansion Joint Filler

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**Section 2: Hazard Identification**

**Classification**

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance:** Gray paste  
**Physical State:** Self-leveling paste  
**Odor:** Slight

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**Section 3: Hazardous Ingredients/Composition**

<b>Chemical Name</b>	<b>CAS No</b>	<b>Weight-%</b>
Proprietary MS Polymer Blend	MIXTURE	<30
Diisodecyl phthalate	26761-40-0	<20
Calcium Carbonate	1317-65-3	<20
Crystalline silica	14808-60-7	<10
Vinyltrimethoxysilane	2768-02-7	0-3
Titanium dioxide	13463-67-7	<10.0
Non-hazardous Ingredients*	Proprietary	<10

\* Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
(Calcium Carbonate, Titanium Dioxide) Inhalation of particulates unlikely due to product's physical state.



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## Section 4: First Aid Measures

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### **First Aid Measures**

#### **General Advice:**

Provide this SDS to medical personnel for treatment.

#### **Eye Contact:**

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

#### **Skin Contact:**

In case of contact, immediately wash skin with soap and water or water for at least 15 minutes. Remove and wash contaminated clothing before reuse. If irritation persists, seek medical attention.

#### **Inhalation:**

Remove to fresh air if breathing is difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.

#### **Ingestion:**

Do not induce vomiting unless directed by medical personnel. If vomiting occurs, lean patient forward to maintain an open airway and prevent aspiration. Get immediate medical attention.

### **Most Important Symptoms and Effects, both Acute and Delayed**

#### **Symptoms:**

Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

### **Indication of any Immediate Medical Attention and Special Treatment Needed**

#### **Note to Physicians:**

Provide general supportive measures and treat symptomatically. May aggravate pre-existing skin disorders.

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## Section 5: Fire Fighting Measures

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#### **Suitable Extinguishing Media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Small Fire:**

Use carbon dioxide (CO<sub>2</sub>), dry chemical or water spray.

#### **Large Fire:**

Dry chemical, Use foam or water spray.



**Unsuitable Extinguishing Media:** Not determined.

**Specific Hazards Arising from the Chemical:**

Product is combustible & may ignite if exposed to high temperature or direct flame.

**Protective Equipment and Precautions for Firefighters:**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

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**Section 6: Accidental Release Measures**

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**Personal Precautions, Protective Equipment and Emergency Procedures**

**Personal precautions:**

Wear protective clothing as described in Section 8 of this safety data sheet.

**Other Information:**

Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots and eye protection).

Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

**For Emergency Responders:**

Restrict access to spill area.

**Environmental precautions:**

Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office.

Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed.



## **Methods and Material for Containment and Cleaning up**

### **Methods for Containment:**

Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

### **Methods for Cleaning Up:**

Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

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## **Section 7: Handling and Storage**

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### **Precautions for Safe Handling**

#### **Advice on Safe Handling:**

Avoid breathing vapors. Use only with adequate ventilation. Open windows and doors to ensure fresh air cross-ventilation during application and curing. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions.

### **Conditions for Safe Storage, Including any Incompatibilities**

#### **Storage Conditions:**

Keep tightly closed in a dry and cool place. Close container after each use. Store containers away from excessive heat & freezing. Do not store at temperatures above 120°F (49°C). Protect from direct sunlight. Store away from incompatible materials. To maximize shelf life, store at temperatures below 80°F (26°C).

#### **Incompatible Materials:**

Strong oxidizing agents. Strong bases.

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## **Section 8: Exposure Controls/Personal Protection**

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### **Exposure Guidelines**

Exposure guidelines / protective equipment are for routine handling and accidental spills.



Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium Carbonate 1317-65-3	-	TWA: 15 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable fraction (vacated) TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 5 mg/m <sup>3</sup> respirable fraction	TWA: 10 mg/m <sup>3</sup> total dust TWA: 5 mg/m <sup>3</sup> respirable dust
Crystalline silica 14808-60-7	TWA: 0.025 mg/m <sup>3</sup> respirable fraction	(vacated) TWA: 0.1 mg/m <sup>3</sup> respirable dust : (30)/( %SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA total dust : (250)/( %SiO <sub>2</sub> + 5) mppcf TWA respirable fraction : (10)/( %SiO <sub>2</sub> + 2) mg/m <sup>3</sup> TWA respirable fraction	IDLH: 50 mg/m <sup>3</sup> respirable dust TWA: 0.05 mg/m <sup>3</sup> respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> total dust (vacated) TWA: 10 mg/m <sup>3</sup> total dust	IDLH: 5000 mg/m <sup>3</sup>

**Appropriate Engineering Controls**

**Engineering Controls:**

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection:**

Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.



**Skin and Body Protection:**

Skin: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations and standards.

Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations and standards.

**Respiratory Protection:**

If mists or sprays are created, use appropriate respiratory protection. Oxygen levels below 19.5% considered IDLH by OSHA. In such instances, use full-facepiece pressure demand SCBA or a full facepiece, supplied air respirator w/ auxillary self-contained air supply.

**General Hygiene Considerations:**

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

Precautionary Measures: Contact lenses may pose a hazard. Soft lenses may absorb and all lenses may concentrate irritants.

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**Section 9: Physical and Chemical Properties**

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**Information on Basic Physical and Chemical Properties**

**Physical State:** Self-leveling paste  
**Appearance:** Gray paste  
**Color:** Gray  
**Odor:** Slight  
**Odor Threshold:** Not determined

<b><u>Property</u></b>	<b><u>Note: The information below is not intended for use in preparing product specifications</u></b>	<b><u>Remarks - Method</u></b>
<b>pH:</b>	Not applicable	
<b>Melting Point/Freezing Point:</b>	< 0°C / < 32°F	
<b>Boiling Point/Boiling Range:</b>	Not applicable	
<b>Flash Point:</b>	> 93.33°C / > 200°F	
<b>Evaporation Rate:</b>	Slower than n-Butyl Acetate	
<b>Flammability (Solid, Gas):</b>	Not determined	
<b>Upper Flammability Limits:</b>	Not established	
<b>Lower Flammability Limits:</b>	Not established	



<b>Vapor Pressure:</b>	Not established	
<b>Vapor Density:</b>	Heavier than air	
<b>Relative Density (Specific Gravity):</b>	~1.25 – 1.75	@ 25°C (77°F)
<b>Water Solubility:</b>	Dilutable in wet stage	
<b>Solubility in Other Solvents:</b>	Not determined	
<b>Partition Coefficient:</b>	Not determined	
<b>Autoignition Temperature:</b>	Not established	
<b>Decomposition Temperature:</b>	Not determined	
<b>Kinematic Viscosity:</b>	Not determined	
<b>Dynamic Viscosity:</b>	Not determined	
<b>Explosive Properties:</b>	Not determined	
<b>Oxidizing Properties:</b>	Not determined	
<b>VOC Content (%):</b>	< 2%	
<b>VOC Content:</b>	<35 g/L	

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### Section 10: Stability and Reactivity

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#### Reactivity

Cures upon contact with air.

#### Chemical Stability

Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization:** Hazardous polymerization does not occur.

#### Conditions to avoid

Incompatible Materials. Excessive heat or cold.

#### Incompatible Materials

Strong oxidizing agents. Strong bases.

#### Hazardous Decomposition Products

No hazardous decomposition products if stored & handled as prescribed.

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### Section 11: Toxicological Information

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#### Information on Likely Routes of Exposure

##### **Product Information**

#### **Eye Contact:**

Eye contact may result in tearing, redness & pain.



**Skin Contact:**

Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.

**Inhalation:**

Overexposure to vapors during application & curing may mildly irritate respiratory tract and result in coughing & sneezing.

**Ingestion:**

May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

**Component Information**

<b>Chemical Name</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Diisodecyl phthalate 26761-40-0	= 64 g/kg (Rat )	> 2900 mg/kg (Rat ) > 3160 mg/kg (Rabbit )	> 12.54 mg/L (Rat ) 4 h
Crystalline silica 14808-60-7	= 500 mg/kg (Rat )	-	-
Vinyltrimethoxysilane 2768-02-7	= 7340 µL/kg (Rat )	= 3360 µL/kg (Rabbit )	-
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat )	-	-

**Information on Physical, Chemical and Toxicological Effects**

**Symptoms:**

Please see section 4 of this SDS for symptoms.

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure**

**Sensitization:**

Not known to be human skin or respiratory sensitizers.

**Carcinogenicity:**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust / powder).

<b>Chemical Name</b>	<b>ACGIH</b>	<b>IARC</b>	<b>NTP</b>	<b>OSHA</b>
Crystalline silica 14808-60-7	A2	Group 1	Known	X





Titanium dioxide 13463-67-7		Group 2B		X
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**ACGIH (American Conference of Governmental Industrial Hygienists)**

*A2 - Suspected Human Carcinogen*

**IARC (International Agency for Research on Cancer)**

*Group 1 - Carcinogenic to Humans*

*Group 2B - Possibly Carcinogenic to Humans*

**NTP (National Toxicology Program)**

*Known - Known Carcinogen*

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

*X - Present*

**Chronic toxicity:**

Repeated or prolonged exposure may result in skin, respiratory, kidney & liver damage. Prolonged & repeated skin contact may result in irritation & possibly dermatitis

**Target Organ Effects:**

Acute: Eyes & Skin.

Chronic: Skin.

**Numerical Measures of Toxicity**

Not determined

**Section 12: Ecological Information**

**Ecotoxicity**

Product not tested for aquatic or animal toxicity. Release of product to terrestrial, atmospheric & aquatic environments should be avoided.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diisodecyl phthalate 26761-40-0	500: 72 h Desmodesmus subspicatus mg/L EC50 0.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1: 96 h Pimephales promelas mg/L LC50 flow-through 0.55: 96 h Lepomis macrochirus mg/L LC50 static 10000: 96 h Leuciscus idus mg/L LC50 static		500: 24 h Daphnia magna Straus mg/L EC50 0.02: 48 h Daphnia magna mg/L EC50 Static



**Persistence and Degradability**

Not tested for persistence & biodegradability

**Bioaccumulation**

Not tested for bio-accumulation potential

**Mobility**

Not tested for mobility in soil

**Other Adverse Effects**

Not determined

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**Section 13: Disposal Considerations**

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**Waste Treatment Methods**

**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations

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**Section 14: Transportation**

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**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Not regulated

**IATA** Not regulated

**IMDG** Not regulated

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**Section 15: Regulatory Information**

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**International Inventories**

**TSCA** Listed

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances



*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

**US Federal Regulations**

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**SARA 313**

Not determined.

**CWA (Clean Water Act)**

Component	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Priority Pollutants	CWA – Hazardous Substances
Diisodecyl phthalate 26761-40-0 ( <20 )		X		

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Diisodecyl phthalate - 26761-40-0	Developmental
Crystalline silica - 14808-60-7	Carcinogen
Titanium dioxide - 13463-67-7	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium Carbonate 1317-65-3	X	X	X
Diisodecyl phthalate 26761-40-0			X
Crystalline silica 14808-60-7	X	X	X



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Titanium dioxide 13463-67-7	X	X	X
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**Section 16: Other Information**

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<b><u>NFPA</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	1	0	0	Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	1	0	0	Not determined

Additional information on the products is available at: [www.tccmaterials.com](http://www.tccmaterials.com)

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