Bluestone Products™,
A TCC Materials Company
2025 Centre Pointe Boulevard
Mendota Heights, MN 55120-1221

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

Revision Date
November 2020

Section 1: Product Identification

Product Type: Sealant & Adhesive

Product Name:
Akonaflex® Pro Self-Leveling Expansion Joint Filler

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

Section 3: Hazardous Ingredients/Composition

Chemical Name	CAS No	Weight-%
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.

Section 4: First Aid Measures

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 note 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.

Section 5: Fire Fighting Measures

Suitable Extinguishing Media:

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

Small Fire:	Use carbon dioxide (CO2), 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.

Section 6: Accidental Release Measures

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.

Section 7: Handling and Storage

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.

Section 8: Exposure Controls/Personal Protection

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^3 total dust TWA: 5 mg/m^3 respirable fraction (vacated) TWA: 15 mg/m^3 total dust (vacated) TWA: 5 mg/m^3 respirable fraction	TWA: 10 mg/m^3 total dust TWA: 5 mg/m^3 respirable dust
Crystalline silica 14808-60-7	25 µg/m^3 (respirable)	50 µg/m^3 (8-hr TWA)	50 µg/m^3 (respirable)
Titanium dioxide 13463-67-7	TWA: 10 mg/m^3	TWA: 15 mg/m^3 total dust (vacated) TWA: 10 mg/m^3 total dust	IDLH: 5000 mg/m^3

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.

Section 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

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

Property	**Note: The information below is not intended for use in preparing product specifications**	**Remarks - Method**
pH:	Not applicable	
Melting Point/Freezing Point:	< 0°C / < 32°F	
Boiling Point/Boiling Range:	Not applicable	
Flash Point:	> 93.33°C / > 200°F	
Evaporation Rate:	Slower than n-Butyl Acetate	
Flammability (Solid, Gas):	Not determined	
Upper Flammability Limits:	Not established	
Lower Flammability Limits:	Not established	
Vapor Pressure:	Not established	
Vapor Density:	Heavier than air	
Relative Density (Specific Gravity):	~1.25 – 1.75	@ 25°C (77°F)
Water Solubility:	Dilutable in wet stage	
Solubility in Other Solvents:	Not determined	
Partition Coefficient:	Not determined	
Autoignition Temperature:	Not established	
Decompostion Temperature:	Not determined	
Kinematic Viscosity:	Not determined	
Dynamic Viscosity:	Not determined	
Explosive Properties:	Not determined	
Oxidizing Properties:	Not determined	

VOC Content (%): < 2%
VOC Content: <35 g/L

Section 10: Stability and Reactivity

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.

Section 11: Toxicological Information

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

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
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).

Chemical Name	ACGIH	IARC	NTP	OSHA
Crystalline silica 14808-60-7	A2	Group 1	Known	X
Titanium dioxide 13463-67-7		Group 2B		X

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 microorganisims	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

Section 13: Disposal Considerations

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

Section 14: Transportation

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

Section 15: Regulatory Information

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

The state of California requires the following statement (Proposition 65) in regards to this material:

WARNING: This product can expose you to chemicals which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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
Titanium dioxide 13463-67-7	X	X	X

Section 16: Other Information

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	1	0	0	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	1	0	0	Not determined

Additional information on the products is available at: www.tccmaterials.com

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