TCC Materials®
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Mendota Heights, MN 55120-1221

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

Revision Date
August 2023

Section 1: Product Identification

Product Type: Sealant & Adhesive

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

Section 2: Hazard Identification

Classification in accordance with paragraph (d) of 29 CFR 1910.1200

Acute Toxicity - Oral - Category 4
Serious Eye Damage/Eye Irritation - Category 2A
Carcinogenicity - Category 1A
Reproductive Toxicity - Category 1B
Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system)
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (respiratory system)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (bladder)

GHS Labels Elements
Symbol(s)

Signal word
Danger

Hazard statements:
Harmful if swallowed.
Causes serious eye irritation.
May cause cancer.
May damage fertility or the unborn child.
Causes damage to organs.
Causes damage to organs through prolonged or repeated exposure.
May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.

Response
If exposed: Call a POISON CENTER or doctor/physician.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
Get medical advice/attention if you feel unwell. Specific treatment (see label).

Storage
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Statements of Unknown Acute Toxicity
Oral 71.91% of the mixture consists of ingredient(s) of unknown acute toxicity.

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.

Section 3: Hazardous Ingredients/Composition

Chemical Name	CAS #	Typical Percentage
Calcium Carbonate	1317-65-3	30-50%
Vinyltrimethoxysilane	2768-02-7	1-5%
Titanium dioxide	13463-67-7	1-5%
Dibutyltin Oxide	818-08-6	0.02-0.1%
Polyethen Polyol	25322-69-4	15-25%

* 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: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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.

Inhalation: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell.

Ingestion: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting.

Most Important Symptoms and Effects both Acute and Delayed
Acute: harmful if swallowed. Causes serious eye irritation.

Delayed: May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure.
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 carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media: Do not use high-pressure water streams.

Specific Hazards Arising from the Chemical: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Hazardous Combustion Products: Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Advice for firefighters: Heating may cause an explosion. Containers may rupture or explode.

Firefighting measures: Keep away from sources of ignition. No smoking. Move material from fire area if it can be done without risk. Avoid inhalation of vapors or combustion by-products. Dike for later disposal. Stay upwind and keep out of low areas.

Special Protective Equipment and Precautions for Firefighters: A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

Section 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up: Keep unnecessary people away, isolate hazard area and deny entry. In case of spillage, stop the flow of material and block any potential routes to water systems. Only personnel trained for the hazards of this material should perform clean up and disposal.

Environmental Precautions: Do not flush into sanitary sewer systems, drains or surface water. Avoid release to the environment.

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 cleanup instructions. Conditions for safe storage, including any incompatibilities.

Conditions for Safe Storage, Including any Incompatibilities Storage Conditions:
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/m3 total dust TWA: 5 mg/m3 respirable fraction (vacated) TWA: 15 mg/m3 total dust (vacated) TWA: 5 mg/m3 respirable fraction	TWA: 10 mg/m3 total dust TWA: 5 mg/m3 respirable dust
Titanium dioxide 13463-67-7	TWA: 10 mg/m3	TWA: 15 mg/m3 total dust (vacated) TWA: 10 mg/m3 total dust	IDLH: 5000 mg/m3

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

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):	~1.40 – 1.60	@ 25°C (77°F)
Water Solubility:	Dilutable in wet stage	
Solubility in Other Solvents:	Not determined	
Partition Coefficient:	Not determined	
Autoignition Temperature:	Not determined	
Decompostion Temperature:	Not determined	
Kinematic Viscosity:	Not determined	
Dynamic Viscosity:	Not determined	
Explosive Properties:	Not determined	
Oxidizing Properties:	Not determined	

Section 10: Stability and Reactivity

Reactivity: Cures upon contact with air.

Oxidizing properties: Not an oxidizer.

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: None under normal processing.

Hazardous polymerization reactions: None under normal processing.

Conditions to avoid: Incompatible materials. Excessive heat or cold.

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
Titanium dioxide 13463-67-7	> 10000 mg/kg (Rat)
Vinyltrimethoxysilane 2769-02-7	= 7340 µL/kg (Rat)
Dibutyltin Oxide 818-08-6	44.9 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
Titanium dioxide 13463-67-7	A4	Group 2B	-	X

ACGIH (American Conference of Governmental Industrial Hygienists)
A2 - Suspected Human Carcinogen
A4- Not classified as a 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

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

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.

US State Regulations

California Proposition 65

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

WARNING: Cancer, Reproductive Harm - www.P65Warnings.ca.gov

Chemical Name	California Proposition 65
Titanium dioxide - 13463-67-7	Carcinogen

US State Right-To-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Titanium dioxide - 13463-67-7	X	X	X
Calcium Carbonate 1317-65-3	X	X	X

Section 16: Other Information

NFPA	**Health Hazards**	**Flammability**	**Instability**	**Special Hazards**
	2	1	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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NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Before using any product, read its label and safety data sheet.

Safety Data Sheet

Akonaflex® Self-Leveling Concrete Repair

TCC Materials®

Version 1.3