

MITEK® WATERTIGHT ADHESIVE SAFETY DATA SHEET (SDS)

Section 1 – Product and Company Identification

Manufacturer: MiTek Inc.

Products: Watertight Adhesive

Address: 560 East Richey Road, Houston, Texas 77073

Phone Number: 1-800-328-5934

Email: barriersystems@mii.com

Website: www.mii.com/watertight

Recommended use: Watertight sealant

Restrictions on use: No known adverse chemical reactions.

Section 2 – Health Hazard Identification

Eye:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	May cause skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.
Inhalation:	May cause respiratory tract irritation. May cause damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
Carcinogenicity:	May cause cancer
Reproductive Effects:	May damage fertility or the unborn child

Hazard Pictograms:



Precautionary Statements: **Prevention:** Wash hands thoroughly after handling. Do not breathe vapors/fumes. Do not eat, drink or smoke while using this product. Use in a well-ventilated area. Wear impervious gloves/protective clothing/eye protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Contaminated work clothing must not be allowed out of the workplace.

Response: If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell. If exposed or concerned: Get medical advice/attention.

Storage: Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

Unknown Acute Toxicity: 40.8% of the mixture consists of ingredient(s) of unknown acute toxicity.

Section 3 –Composition / Information on Ingredients

Chemical Name:	CAS Number:	Weight %
Calcium Carbonate**	1317-65-3	30 – 60%*
Silyl Terminated Polyethers	Proprietary	10 – 30%*
Trimethoxyvinylsilane	2768-02-7	0.5 – 1.5%*
Aminoalkoxysilane	1760-24-3	0.5 – 1.5%*
Dibutyltin bis(acetylacetonate)	22673-19-4	0.1 – 1.0%*
Crystalline Silica, Quartz**	14808-60-7	0.1 – 1.0%*
<i>*Means that the component will fall into one of the ranges specified due to batch-to-batch</i> <i>**Inhalation of particulates unlikely due to product's physical state.</i>		

Section 4 – First-aid Measures

- Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.
- Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. If skin irritation or rash occurs: get medical attention/advice. Take off contaminated clothing and wash before reuse.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice or attention.
- Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Section 5 – Fire-fighting Measures

- Flammability:** Not flammable nor combustible by WHMIS/OSHA HAZCOM2012 Criteria.
- Extinguishing Media:** Treat for surrounding media
- Hazardous Combustion Products:** By heating and fire, harmful vapors/gases may be formed. Nitrogen Oxides (corrosive)
- Fire-fighting Instructions:** Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

Section 6 – Accidental Release Measures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

- Containment:** Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Cleanup:** Dispose of unwanted material properly in accordance with all local, regional, national and international regulations.

Section 7 – Handling and Storage

- Handling:** Use in well-ventilated areas. Wear impervious gloves and eye protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe vapors/fumes. Do not take internally.
- Storage:** Store locked up. Keep out of the reach of children. Keep container tightly closed. Store at room temperature and keep containers closed when not in use.
- General Hygiene Advice:** Use good industrial hygiene practices and wear recommended personal protection. Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

Section 8 – Exposure Controls / Personal Protection

Occupational Exposure Limits		
Chemical Name	OSHA-PEL	ACGIH-TLV
Calcium Carbonate**	5 mg/m ³ (Resp.) 15 mg/m ³ (Total)	5 mg/m ³ (Resp.)
Silyl Terminated Polyethers	Not Available	Not Available
Trimethoxyvinylsilane	Not Available	Not Available
Aminoalkoxysilane	Not Available	Not Available
Dibutyltin bis(acetylacetonate)	0.1 mg/m ³	0.1 mg/m ³
Crystalline Silica, Quartz**	0.05 mg/m ³	0.025 mg/m ³ (Resp.)
**Inhalation of particulates unlikely due to product's physical state.		

- Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.
- Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

Skin Protection:	Wear impervious gloves, such as nitrile, and wear suitable protective clothing.
Eye Protection:	Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]

Section 9 – Physical and Chemical Properties

Appearance (physical state, color, etc.)	Opaque Paste
Odor:	Mint-like
Odor Threshold:	Mild
pH:	7-8
Melting Point / Freezing Point:	Not available
Initial Boiling Point & Boiling Range:	Not available
Flash Point:	Not available
Evaporation Rate (Water = 1):	Not available
Flammability:	Not flammable / not combustible
Upper Flammability / Explosive Limit:	Not available
Lower Flammability / Explosive Limit:	Not available
Vapor Pressure:	Not available
Vapor Density:	Not available
Relative Density:	1.65 – 1.85 g/mL
Solubility in Water:	Insoluble
Partition Coefficient: n-octanol/water:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature:	Not available
Viscosity (cps):	Approximately 1,000,000 cP
VOC Content:	<16 g/L, less water and exempt solvents

Section 10 – Stability and Reactivity

Reactivity:	No dangerous reaction known under conditions or normal use.
Stability:	Stable under normal storage conditions. Keep dry in storage.
Hazardous Reaction:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Heat. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Water and moisture.
Hazardous Decomposition Products:	Carbon oxides, Nitrogen Oxides (NO _x), Aldehydes, Methanol

Section 11 – Toxicological Information

Symptoms Related To Physical / Chemical / Toxicological Characteristics:

Eye Contact:	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	May cause skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause an allergic skin reaction.
Inhalation:	May cause respiratory tract irritation. May cause damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious disabling and fatal lung disease.
Ingestion:	May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

Acute Toxicity (ATE _{mix} = 5,889 mg/kg)		
Chemical Name	LC50	LD50
Calcium Carbonate	Not Available	Oral: 6,450 mg/kg, rat
Silyl Terminated Polyethers	Not Available	Not Available
Trimethoxyvinylsilane	Not Available	Oral: >7,000 mg/kg, rat
Aminoalkoxysilane	Not Available	Oral: >7,500 mg/kg, rat

Dibutyltin bis(acetylacetonate)	Not Available	Oral: 1,864 mg/kg, rat
Crystalline Silica, Quartz	Not Available	Oral: >10,000 mg/kg, rat

Carcinogenicity	
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP, IARC, OSHA, ACGIH, CP65)
Calcium Carbonate	Not Listed
Silyl Terminated Polyethers	Not Listed
Trimethoxyvinylsilane	Not Listed
Aminoalkoxysilane	Not Listed
Dibutyltin bis(acetylacetonate)	Not Listed
Crystalline Silica, Quartz	N-2, I-1, O-1, ACGIH-A2, CP65

Delayed, Immediate, and Chronic Effects of Short and Long-Term Exposure	
<u>SHORT-TERM</u>	
Skin Corrosion/Irritation:	May cause skin irritation
Serious Eye Damage/Irritation:	Causes serious eye irritation
Respiratory Sensitization:	Not Classified
Skin Sensitization:	May cause an allergic skin reaction
STOT-Single Exposure:	May cause respiratory irritation
Aspiration Hazard:	Not Classified
<u>LONG-TERM</u>	
Carcinogenicity:	May cause cancer
Germ Cell Mutagenicity:	Not Classified
Reproductive Toxicity:	May damage fertility or the unborn child
STOT-Repeated Exposure:	Not Classified
Synergistic/Antagonistic Effects:	Not Classified

Section 12 – Ecological Information

Ecotoxicity: May cause long-term adverse effects to the aquatic environment.
Keep from entry into sewers and waterways.

Ecotoxicity		
Chemical Name	EC50/NOEC-48 Hours	LC50/NOEC-96 Hours
Calcium Carbonate	Not Available	Not Available
Silyl Terminated Polyethers	Not Available	Not Available
Trimethoxyvinylsilane	168.7 mg/L, Daphnia magna	597 mg/L, Brachydanio rerio
Aminoalkoxysilane	81 mg/L, Daphnia magna	597 mg/L, Brachydanio rerio
Dibutyltin bis(acetylacetonate)	0.0036 mg/L, Daphnia magna	Not Available
Crystalline Silica, Quartz	Not Available	Not Available

Section 13 – Disposal Considerations

Disposal: Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

Section 14 – Transport Information

Department of Transportation (DOT): This product is not regulated by the D.O.T. when shipped domestically by land.

Canadian TDG Information: This product is not regulated by the T.D.G. when shipped domestically by land.

Summary: This product is NOT regulated under DOT/TDG and other transportation regulations.

Section 15 – Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS / LEGISLATIONS SPECIFIC FOR THE CHEMICAL

Canada: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

US: SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012

U.S. FEDERAL INFORMATION:

	SARA TITLE III			
Chemical Name	SECTION 302 (EHS) TPQ (LBS)	SECTION 304 EHS RQ (LBS)	CERCLA RQ (LBS)	SECTION 313 (TRI)
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed
Silyl Terminated Polyethers	Not Listed	Not Listed	Not Listed	Not Listed
Trimethoxyvinylsilane	Not Listed	Not Listed	Not Listed	Not Listed
Aminoalkoxysilane	Not Listed	Not Listed	Not Listed	Not Listed
Dibutyltin bis(acetylacetonate)	Not Listed	Not Listed	Not Listed	Not Listed
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed

US STATE RIGHT TO KNOW LAWS:

California Proposition 65:	WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov .
Other U.S. States “Right to Know” Lists:	Calcium Carbonate: CAS#1317-65-3 Silyl Terminated Polyethers: CAS# N/A Trimethoxyvinylsilane: CAS#2768-02-7 Aminoalkoxysilane: CAS#1760-24-3 Dibutyltin bis(acetylacetonate): CAS#22673-19-4 Crystalline Silica, Quartz: CAS#14808-60-7

GLOBAL INVENTORIES

Chemical Name	USA TSCA	Canada DSL/NDSL
Calcium Carbonate	Yes	NDSL
Silyl Terminated Polyethers	Yes	DSL
Trimethoxyvinylsilane	Yes	DSL

Aminoalkoxysilane	Yes	DSL
Dibutyltin bis(acetylacetonate)	Yes	DSL
Crystalline Silica, Quartz	Yes	DSL

Section 16 – Other Information

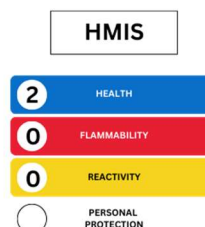
National Fire Protection Association (NFPA) Ratings:

Health 2 (moderate)
Flammability 0 (minimal)
Reactivity 0 (minimal)



HMIS Ratings:

Health 2 (moderate)
Flammability 0 (minimal)
Reactivity 0 (minimal)



CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G)	<p>American Conference of Governmental Industrial Hygienists</p> <ul style="list-style-type: none"> • A1 – Confirmed human carcinogen • A2 – Suspected human carcinogen • A3 – Animal carcinogen • A4 – Not classifiable as a human carcinogen • A5 – Not suspected a human carcinogen
IARC (I)	<p>International Agency for Research on Cancer</p> <ul style="list-style-type: none"> • 1 – The agent (mixture) is carcinogenic to humans • 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals. • 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the

	<p>absence of sufficient evidence of carcinogenicity in experimental animals.</p> <ul style="list-style-type: none"> • 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans. • 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.
NTP (N)	<p>National Toxicology Program</p> <ul style="list-style-type: none"> • 1 – Known to be carcinogens • 2 – Reasonably anticipated to be carcinogens

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