

High-Tack Hybrid Adhesive

Issue Date 2023.11.28

Revision Date: 2024.10.24

Revision Number: 2.0

SECTION 1 – PRODUCT IDENTIFICATION

Product Identifier

Product Name: High-Tack Hybrid Adhesive

Other means of identification

Other Names/Synonyms: Part No. 60509599

Recommended use of the chemical and restrictions on use

Recommended use: Restricted to professional users as an adhesive for seam sealant for Leadax roofing flashing membrane.

Uses advised against: No information available.

Details of the supplier of the safety data sheet

Supplier Address: VAPROSHIELD, LLC
915 26TH Ave. NW, #C-5
Gig Harbor, WA 9335
866-731-7663

Emergency telephone number

Product Information: 8:00 AM – 5:00 PM PST Monday-Friday

1-866-731-7663

24 hour Emergency Contact: 24/7 CHEMTREC:

1-800-424-9300 or 1-703-527-3887

SECTION 2 - HAZARDS IDENTIFICATION

Classification: In accordance with paragraph (d) of 29 CFR 1910.1200 (2012 OSHA Hazard Communication Standard)

Skin sensitivity	Category 1
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Carcinogenicity	Category 1A

Label Elements

EMERGENCY OVERVIEW:

Hazard statements

DANGER!

Causes serious eye irritation

May cause an allergic skin reaction

May cause cancer

May damage fertility or the unborn child



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

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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.

ADDITIONAL INFORMATION:

Hazards not otherwise classified (HNOC)

Unknown Acute Toxicity

40.8% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3 - COMPOSITION/INFORMATION

Component	CAS-No.	Weight - %
Calcium Carbonate**	1317-65-3	30 – 60%*
Silyl Terminated Polyethers	Proprietary	10 – 30%*
Trimethoxyvinylsilane	2768-24-3	0.5 – 1.5%*
Aminoalkoxysilane	1760-24-3	0.5 – 1.5%*
Dibutyltin bis(acetylacetonate)	22673-19-4	01 – 1.0%*
Crystalline Silica, Quartz**	14808-60-7	0.1 – 1.0%*

** Inhalation of particulates unlikely due to product's physical state.

* Means that the component will fall into one of the ranges specified due to batch-to-batch variability and to protect Confidential Business Information.

SECTION 4 - FIRST AID MEASURES

ROUTES OF EXPOSURE

Eye contact: 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.

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.

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/attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

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.

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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.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accidents or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

SECTION 5 - FIRE-FIGHTING MEASURES

FLAMMABILITY

Flammability: Not Flammable/Not Combustible by WHMIS/OSHA HAZCOM2012 Criteria Extinguishing Media

EXTINGUISHING MEDIA

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: Water.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

Product of Combustion: By heating and fire, harmful vapors/gases may be formed. Nitrogen Oxides(corrosive).

Explosive Data: Not Available

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full firefighting turn-out gear (full bunker gear) and respiratory protection (SCBA).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

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

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Methods for Containment: Recover all usable material. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: 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.

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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.

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.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Exposure Limit Values

Chemical Name	ACGIH-TLV	OSHA-PEL
Calcium Carbonate**	5 mg/m ³ (Respirable)	5 mg/m ³ (Respirable) 15 mg/m ³ (Total)
Silyl Terminated Polyethers	Not Available	Note 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**	0.025 mg/m ³ (Respirable)	0.105mg/m ³

** Inhalation of particulates unlikely due to product's physical state.

EXPOSURE CONTROLS

Engineering Controls: Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

INDIVIDUAL PROTECTION MEASURES

Eye/Face Protection: Wear approved eye protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]

Skin Protection: Hand Protection, Wear impervious gloves, such as nitrile.

Body Protection, Wear suitable protective clothing.

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).

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Opaque Paste
Odor:	Mint-like
Odor Threshold:	Mild
pH:	7 - 8

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Melting point/Freezing point:	Not Available
Initial boiling point and 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 of normal use.
Chemical stability:	Stable under normal storage conditions. Keep dry in storage.
Possibility of hazardous reactions:	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 (NOx). Aldehydes. Methanol.

SECTION 11 – TOXICOLOGY INFORMATION

LIKELY ROUTES OF EXPOSURE:

Skin contact, eye contact, inhalation, and ingestion.

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

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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

SHORT-TERM

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

LONG-TERM

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

Persistence and Degradability: No data available

Bio accumulative potential: No data availability

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Mobility in soil:

No data availability

Other adverse effects:

No data availability

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Method: Disposed in contents/containers compliance with Federal, Provincial, State and Local regulations.

Other Disposal Methods: Not Available.

SECTION 14 – TRANSPORTATION INFORMATION

DOT (U.S.)	TDG (CANADA)	IATA
UN NUMBER: Not Regulated	UN NUMBER: Not Regulated	UN NUMBER: Not Regulated
UN PROPER SHIPPING NAME: Not Regulated	UN PROPER SHIPPING NAME: Not Regulated	UN PROPER SHIPPING NAME: Not Regulated
TRANSPORT HAZARD CLASS (ES): Not Regulated	TRANSPORT HAZARD CLASS (ES): Not Regulated	TRANSPORT HAZARD CLASS (ES): Not Regulated
PACKING GROUP (if applicable): Not Regulated	PACKING GROUP (if applicable): Not Regulated	PACKING GROUP (if applicable): Not Regulated

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

Environmental Hazards: Not Available

Transport in Bulk according to annex II of Marpol 73/78 and the IBC code: Not Available

Special Precautions for user: Do not handle until all safety precautions have been read and understood.

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

US FEDERAL INFORMATION

CHEMICAL NAME	SARA TITLE III			
	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

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Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed
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US STATE RIGHT TO KNOW LAWS

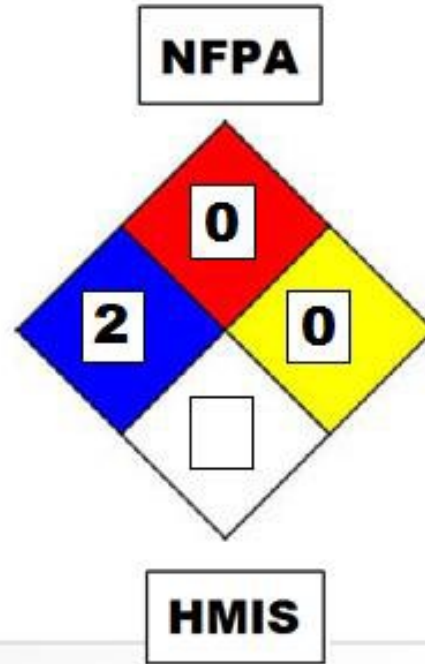
California Proposition 65:	 WARNING: This product can expose you to chemicals including crystalline silica, which is known to the State of California to cause cancer, and methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to 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

NFPA AND HMIS RATINGS

<p>HEALTH HAZARD</p> <p>4 EXTREME - Highly toxic - May be fatal on short-term exposure.</p> <p>3 SERIOUS - Toxic - Full protective suit and breathing apparatus should be worn.</p> <p>2 MODERATE - Breathing apparatus and face mask must be worn.</p> <p>1 SLIGHT - Breathing apparatus may be worn.</p> <p>0 MINIMAL - No precautions necessary.</p>	<p>FLAMMABILITY HAZARD</p> <p>4 EXTREME - Downey flammable gas or liquid. Flash Point below 73°F.</p> <p>3 SERIOUS - Flammable. Flash Point 73°F to 300°F.</p> <p>2 MODERATE - Combustible. Requires moderate heating to ignite. Flash Point below 200°F.</p> <p>1 SLIGHT - Slightly combustible. Requires strong heating to ignite.</p> <p>0 MINIMAL - Will not burn under normal conditions.</p>
<p>SPECIFIC HAZARD</p> <p>OXIDIZER OXY</p> <p>ACID ACID</p> <p>ALKALI ALK</p> <p>CORROSIVE COR</p> <p>Use NO WATER W</p> <p>RADIATION ☢</p>	<p>INSTABILITY HAZARD</p> <p>4 EXTREME - Explosive at room temperature.</p> <p>3 SERIOUS - May detonate if shocked or heated under confinement or mixed with water.</p> <p>2 MODERATE - Unstable. May react with water.</p> <p>1 SLIGHT - May react if heated or mixed with water.</p> <p>0 MINIMAL - Normally stable. Does not react with water.</p>



Hazard Index	
4	Severe Hazard
3	Serious Hazard
2	Moderate Hazard
1	Slight Hazard

2 HEALTH	PROTECTIVE EQUIPMENT INDEX	
0 FLAMMABILITY	A	G
0 REACTIVITY	B	H
X PERSONAL PROTECTION	C	I
	D	J
	E	K
	F	X Ask your supervisor for special handling instructions.

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SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G)	American Conference of Governmental Industrial Hygienists <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)	International Agency for Research on Cancer <ul style="list-style-type: none"> • 1 – The agent (mixture) is carcinogenic to humans
	<ul style="list-style-type: none"> • 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 absence of sufficient evidence of carcinogenicity in experimental animals. • 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)	National Toxicology Program <ul style="list-style-type: none"> • 1 – Known to be carcinogens • 2 – Reasonably anticipated to be carcinogens

SECTION 16 – OTHER INFORMATION

Prepared By
Issuing Date

Regulatory Department
23-October-2024

Disclaimer

Information provided in this Safety Data Sheet is given in good faith and is, to the best of our knowledge and belief, accurate and reliable. However, since information herein was obtained, in part, from independent suppliers not under the direction and supervision of VAPROSHIELD, the information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. VAPROSHIELD warrants only that it has made no effort to censor other than trade secret information or to conceal deleterious aspects of its products. The information relates only to the specific material designated and may not be valid for material used in combination with other materials or in any process, unless noted in the text.

End of Safety Data Sheet