

SAFETY DATA SHEET (SDS)  
OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.  
SDS ID: R100-B

Revision: 0.0  
Issue Date: 01/12/2026  
Print Date: 01/12/2026

## 1 PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier:

Product Name(s): EnSeal Hybrid Polymer Sealant

Product Identification: MS Polymer Sealant Mixture

### Recommended Use:

Industrial-Use Sealant and Adhesive

Restrictions: Not Available

### Supplier Contact Information:

Name/Address:

ENPAC

34355 Melinz Parkway

Eastlake, OH 44095

Phone #: 1-800-936-7229

Emergency Contact (United States): 1-800-936-7229

## 2 HAZARDS IDENTIFICATION

### Hazard Classification:

Skin Irritant Category 2

Causes serious eye irritation Category 2A

Carcinogenicity Category 1A

Germ Cell mutagenicity Category 2

Reproductive toxicity Category 1B (Presumed Human Reproductive Toxicant)

### Signal Word:

DANGER!

### Hazard Statements:

**H315** Causes skin irritation

**H317** May Cause allergic Skin reaction

**H319** Causes serious eye irritation

**H360** May damage fertility or the unborn

child **H350** May cause cancer





**Precautionary Statements:**

- P203:** Obtain, read and follow all safety instructions before use.
- P261:** Avoid breathing dust/fume/gas/mist/vapors/spray.
- P264:** Wash hands thoroughly after handling.
- P265:** Do not touch eyes.
- P280:** Wear protective gloves/protective clothing/eye protection/face protection.
- P272:** Contaminated work clothing should not be allowed out of the workplace.

**Response Statement**

**P308+P316** IF EXPOSED OR CONCERNED: Get medical help immediately.

IF IN EYES:

- P305+P354+P338:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P317:** If eye irritation persists, get emergency medical help.

IF ON SKIN:

- P352:** Wash with plenty of water.
- P333+P317:** If skin irritation or rash occurs: Get medical help.
- P362+P364:** Take off contaminated clothing and wash it before reuse.

IF INHALED:

- P304+P340:** Remove person to fresh air and keep comfortable for breathing.
- P319:** Seek medical attention if feeling unwell.

IF INGESTED:

- P301+P330+P331:** Rinse Mouth. Do NOT induce vomiting.
- P319:** Seek medical attention if feeling unwell.

STORAGE:

- P405:** Store locked up.

DISPOSAL:

- P501:** Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

OTHER HAZARDS:

Not classified

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Mixture

*Exact percentages vary batch-to-batch.*

| Chemical Name                   | CAS                      | Weight %   |
|---------------------------------|--------------------------|------------|
| Silyl Terminated Poly Ether(s)  | Proprietary, 75009-88-00 | 10-30%     |
| Calcium Carbonate *             | 471-34-1, 1317-65-3      | 30-60%     |
| Trimethoxyvinylsilane           | 2768-02-07               | 0.5 – 2%   |
| Aminoalkoxysilane               | 1760-24-3                | 0.5 – 1.5% |
| Crystalline Silica Quartz       | 14808-60-7               | 0.1 – 1.0% |
| Dibutyltin bis(acetylacetonate) | 22673-19-4               | Up to 1.0% |

*\*Material is fully encapsulated and presents negligible risk of inhalation.*

### 4 FIRST AID MEASURES

#### EYE CONTACT:

Causes serious eye irritation, including redness of the conjunctiva. Rinse 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:

May cause skin irritation or allergic skin reaction. In case of contact, immediately flush skin with plenty of soap and water. 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:

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. 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:

May be harmful if swallowed. May cause nausea and vomiting. 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.

**NOTE TO PHYSICIANS:** Treat Symptomatically.

## 5 FIRE FIGHTING MEASURES

### FLAMMABILITY:

Not Flammable/Not Combustible

### EXTINGUISHING MEDIA

Suitable Extinguishing Media: Water. CO2. Foam. Dry Chemical. Treat for surrounding material.

Unsuitable Extinguishing Media: No information.

### SPECIFIC HAZARDS ARISING FROM MIXTURE

Products of Combustion: By heating and fire, harmful vapors/gases may be formed. Toxic fumes such as Carbon Monoxide, Hydrogen Sulfide, Sulfur Oxide, Nitrogen Oxide may be released.

### ADVICE FOR FIREFIGHTERS

Firefighting instructions: Avoid all unnecessary exposure. Cool closed containers exposed to fire with water spray. Eliminate all ignition sources if safe to do so.

Protection during firefighting: Do not attempt to act without suitable protective equipment: Self-contained breathing apparatus. Complete protective clothing.

## 6 ACCIDENTAL RELEASE MEASURES

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

### 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.

## 7 HANDLING AND STORAGE

### Precautions for safe 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 into your eyes. Do not get on skin or clothing. Do not breathe vapors/fumes. Do not take internally.

### General Hygiene Advice:

Use good industrial hygiene practices and wear recommended personal protection. Wash 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.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

| Chemical Name                   | NIOSH-REL  | OSHA-PEL   | ACGIH-TLV               |
|---------------------------------|--|--|-------------------------|
| Silyl Terminated Poly Ether(s)  | Not Available  | Not Available  | Not Available           |
| Calcium Carbonate *             | 10 mg/m <sup>3</sup> (Total)<br>5 mg/m <sup>3</sup> (Resp) | 15 mg/m <sup>3</sup> (Total)<br>5 mg/m <sup>3</sup> (Resp) | Not Available           |
| Trimethoxyvinylsilane           | Not Available  | Not Available  | Not Available           |
| Aminoalkoxysilane               | Not Available  | Not Available  | Not Available           |
| Crystalline Silica Quartz       | 0.05 mg/m <sup>3</sup>                                     | 0.05 mg/m <sup>3</sup>                                     | 0.025 mg/m <sup>3</sup> |
| Dibutyltin bis(acetylacetonate) | Not Available  | 0.1 mg/m <sup>3</sup>                                      | 0.1 mg/m <sup>3</sup>   |

\*Inhalation of particulates is not likely due to the material's physical state.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable.

If the directions for use on the product label are followed, exposure of individuals using the product should not exceed the above standard.

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits. Vapors are heavier than air- Prevent fumes from building up in confined spaces. Do not enter any confined spaces where fumes may have collected.

**Recommended Personal Protection Equipment:**


Eye/Face Protection:

Wear approved eye protection, such as properly-fitted chemical safety goggles or a face shield.



Skin Protection:

Wear suitable protective clothing.



Wear gloves impervious to mixture., such as Nitrile. Glove material varies; Always ensure glove material is suitable for use.



Respiratory Protection:

Recommened NIOSH approved respirator or filtering mask, such as N95, in 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).

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste  
Color: Not available  
Appearance: Opaque  
Odor: Silane  
Odor threshold: Not available  
Melting point: Not available  
Boiling point: Not available  
Flammability: Non flammable.  
Explosive properties: Not explosive.  
Explosive limits: Not available  
Lower explosion limit: Not available  
Upper explosion limit: Not available  
Flash point: Not available.  
Auto-ignition temperature: Not available  
Decomposition temperature: Not available  
pH: Not available  
Viscosity, kinematic: Not available  
Solubility: Not soluble in water.  
Partition coefficient n-octanol/water (Log Pow): Not available  
Vapor pressure: Not available.  
Density: 1.5 - 1.80 g/mL  
Relative vapor density at 20°C: Not available  
Particle size: Not available

## 10 STABILITY AND REACTIVITY

### REACTIVITY

No dangerous reaction is known under conditions of normal use.

### CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage. Avoid elevated temperatures.

### POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction is known under conditions of normal use.

### CONDITIONS TO AVOID

Heat. Oxidizing agents.

### INCOMPATIBLE MATERIALS

Strong oxidizing agents. Water and moisture.

### HAZARDOUS DECOMPOSITION PRODUCTS

Carbon oxides. Nitrogen Oxides (NOx). Aldehydes. Methanol.

**11 TOXICOLOGICAL INFORMATION**

Likely Route of Exposure:

Eye Contact, Skin Contact, Inhalation, Ingestion.

**Symptoms related to the material Characteristics:**

**EYE CONTACT:**

Causes serious eye irritation, including redness of the conjunctiva. Symptoms may include excessive blinking, tear production, and swelling.

**SKIN CONTACT:**

May cause skin irritation or allergic skin reaction. Handling this material without proper skin protection may cause dry skin or dermatitis.

**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. 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.

| Acute Toxicity                  |                         |   |
|---------------------------------|-------------------------|---|
| Chemical Name                   | LC50                    | LD50  |
| Calcium Carbonate               | Not Available           | Oral: 6,450 mg/kg, rat                          |
| Silyl Terminated Polyethers     | Not Available           | Not Available                                   |
| Trimethoxyvinylsilane           | Rat 4h 16.8 mg/L        | Rat Oral: >7,000 mg/kg                          |
| Aminoalkoxysilane               | Rat 4h 1.49 – 2.44 mg/L | Rat Oral: 2295 mg/kg<br>Rat Dermal: >2000 mg/kg |
| Dibutyltin bis(acetylacetonate) | Not Available           | Oral: 1,864 mg/kg, rat                          |
| Crystalline Silica, Quartz      | Not Available           | Oral: >5000 mg/kg, rat                          |

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| Aminoalkoxysilane               | Rat 4h 1.49 – 2.44 mg/L | Rat Oral: 2295 mg/kg<br>Rat Dermal: >2000 mg/kg |
| Dibutyltin bis(acetylacetonate) | Not Available           | Oral: 1,864 mg/kg, rat                          |
| Crystalline Silica, Quartz      | Not Available           | Oral: >5000 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   |

| SHORT-TERM                               |  |
|--|--|
| <b>Skin Corrosion/Irritation:</b>        | May cause skin irritation                |
| <b>Serious Eye Damage/Irritation:</b>    | Causes serious eye irritation            |
| <b>Respiratory Sensitization:</b>        | Not Classified                           |
| <b>Skin Sensitization:</b>               | May cause an allergic skin reaction      |
| <b>STOT-Single Exposure:</b>             | May cause respiratory irritation         |
| <b>Aspiration Hazard:</b>                | Not Classified                           |
| LONG-TERM                                |  |
| <b>Carcinogenicity:</b>                  | May cause cancer                         |
| <b>Germ Cell Mutagenicity:</b>           | Suspected of causing genetic defects.    |
| <b>Reproductive Toxicity:</b>            | May damage fertility or the unborn child |
| <b>STOT-Repeated Exposure:</b>           | Not Classified                           |
| <b>Synergistic/Antagonistic Effects:</b> | Not Classified                           |

**12 ECOLOGICAL INFORMATION**

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         | >100 mg/l Danio rerio    |
| Aminoalkoxysilane               | 8.1 mg/l Daphnia magna           | 597 mg/L Danio rerio     |
| Dibutyltin bis(acetylacetonate) | 0.004 mg/l Aquatic invertebrates | >2 mg/l Fish             |
| Crystalline Silica, Quartz      | >1000 mg/l Daphnia magna         | >10,000 mg/l Danio rerio |

Persistence & Biodegradability:

No information.

Bio accumulative potential:

No information.

Mobility:

No information.

Other Adverse Effects:

None known.

**13 DISPOSAL CONSIDERATIONS**

DISPOSAL METHOD

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

OTHER DISPOSAL CONSIDERATIONS

Not Available

**14 TRANSPORT INFORMATION**

DOT/TDG/IATA Transport Information:

UN NUMBER: Not Regulated

UN PROPER SHIPPING NAME: Not Regulated

TRANSPORT HAZARD CLASS (ES): Not Regulated

PACKING GROUP (if applicable): Not Regulated

UN NUMBER:

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

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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.

## 15 REGULATORY INFORMATION

**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).

### 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        |
| Crystalline Silica, Quartz      | Not Listed                  | Not Listed                 | Not Listed      | Not Listed        |
| Dibutyltin bis(acetylacetonate) | Not Listed                  | Not Listed                 | Not Listed      | Not Listed        |

### US STATE RIGHT TO KNOW LAWS:

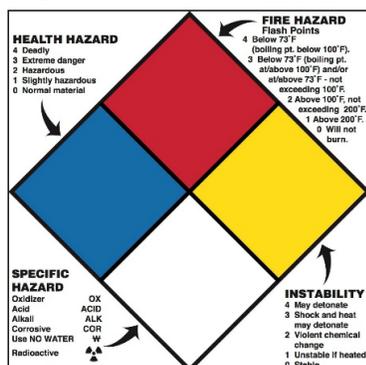
#### California Proposition 65:

**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](http://www.P65Warnings.ca.gov)

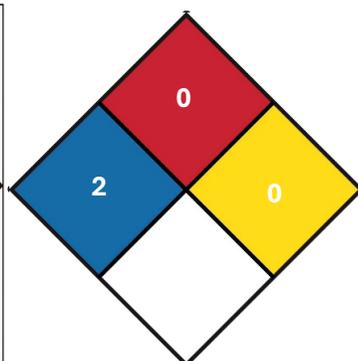
*Note: Methanol is produced as a by-product of the curing reaction and is not an added component to mixture.*

### NFPA/HMIS Information

#### Key:



#### Rating:





34355 Melinz Parkway  
Eastlake, Ohio 44095  
Phone: 1-800-936-7229  
Website: <https://enpac.com>

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## 16 OTHER INFORMATION

Date Prepared: 01/12/2026

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**Disclaimer:** This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. 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.