



3735 GREEN ROAD
BEACHWOOD, OHIO 44122-8068

MATERIAL SAFETY DATA SHEET
TELEPHONE: (216)292-5000

EMERGENCIES: (216)765-6727 8:30-5:00 EST
AFTER HOURS: CHEMTREC (800)424-9300

SECTION 1

Order Code: 876038 061

Product Name: TREMSEAL HP BASE
Chemical Family: Sealant
Product Code: 876-036 Date Prepared: 20-SEP-95
MSDS Preparer: C.R. Bruno Replaces Date: 20-FEB-95

Other Applications:
THIS MATERIAL SAFETY DATA SHEET (MSDS) APPLIES TO THE FOLLOWING:
876-036 (ALUMINIUM STONE), 876-037 (BRONZE), 876-038 (LIMESTONE)
876-039 (PRECAST WHITE), 876-040 (WHITE)

Section 2 - Molecular Composition

Common Name and Chemical Name Exposure Limits	Weight %	CAS Number
POLYURETHANE PREPOLYMER, EPOXY MODIFIED OSHA:TWA - STEL - ACGIH:TWA - STEL -	45.0-50.0	Trade Secret
CALCIUM CARBONATE (LIMESTONE) OSHA:TWA 15 mg/M3 STEL - ACGIH:TWA 10 mg/M3 STEL -	25.0-30.0	1317-65-3 (total dust, 5mg/M3 respirable fraction) (total dust, no asbestos, <1% SiO2)
CHLORINATED PARAFFIN WAX OSHA:TWA - STEL - ACGIH:TWA - STEL -	5.0-10.0	Trade Secret
MODIFIED CASTOR OIL OSHA:TWA 15 mg/M3 STEL - ACGIH:TWA 10 mg/M3 STEL -	5.0-10.0	Trade Secret (total nuisance dust) (total nuisance dust)
STODDARD SOLVENT (MINERAL SPIRITS) OSHA:TWA 100 ppm STEL - ACGIH:TWA 100 ppm STEL -	1.0-2.0	8052-41-3
TOLUENE (METHYLBENZENE) OSHA:TWA 100 ppm STEL 150 ppm ACGIH:TWA 50 ppm STEL -	0.1-1.0	108-88-3 (skin)
CRYSTALLINE SILICA (QUARTZ) OSHA:TWA 0.10 mg/M3 STEL - ACGIH:TWA 0.10 mg/M3 STEL -	0.1-0.3	14808-60-7 (skin) (respirable dust) (respirable dust)

Section 3 - Hazards Identification

Emergency Overview:
Neutral paste. Can cause headache, nausea, drowsiness, stupor, irritation to respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

Potential Hlth Effect/Rte of Entry:

Inhalation:
Can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system.
Eyes:
Can cause irritation.
Ingestion:
Can cause gastrointestinal irritation.
Skin:
Can cause irritation.
Acute Health Effects:
Not established.

Chronic Health Effects:

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. IARC concluded that there is sufficient evidence for carcinogenicity of crystalline silica (quartz) in experimental animals, but only limited evidence in humans. Prolonged and repeated overexposure to free crystalline silica dust above the TLV level may cause scarring of the lungs with cough and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica. However, silica in this product is encapsulated and release is not expected unless it is necessary to abrade, grind or sand surfaces coated with product. Overexposure to mineral spirits can adversely affect the lung, CNS or cardiac system. Prolonged and repeated exposure caused kidney damage in male rats. Prolonged and repeated overexposure to toluene caused liver and kidney damage in laboratory animals. Based on animal experiments, toluene may be a cardiac sensitizer and may cause birth defects or other reproductive abnormalities. Many case studies involving abuse during pregnancy clearly indicate that toluene is a developmental toxicant. Developmental toxic effects comparable to those observed in humans have been seen in lab animals but the effects were generally associated with maternal toxicity.

Section 4 - First Aid Measures

Inhalation:

Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately.

Eyes:

Flush immediately with running water for 15 minutes, lifting the upper and lower lids occasionally. Get medical attention immediately.

Ingestion:

Get medical attention immediately.

Skin:

Wash area of contact thoroughly with hand cleaner followed by soap and water. If irritation, rash or other disorders develop, get medical attention immediately.

Notes to Physician:

N/A

Section 5 - Fire Fighting Measures

Flash Point:	N/A
Method:	N/A
Lower Flammability Limit:	Not Established
Upper Flammability Limit:	Not Established
Autoignition Temperature:	Not Established

Extinguishing Media:

If water fog is ineffective, use carbon dioxide, dry chemical or foam.

Fire and Explosion Hazards:

Never use welding or cutting torch on or near container (even empty). Product, residue or vapor may ignite. See section IX for additional precautions.

Special Fire Fighting Procedures:

During a fire, personnel at the scene are to prevent exposure to fumes using accepted fire fighting techniques.

Fire Fighting Equipment:

N/A

Other Precautions:

Hydrocyanic acid can form.

Section 6 - Accidental Release Measures

Release Response Overview:

Remove sources of ignition immediately. Ventilate to reduce the airborne contaminant concentration below the exposure limit in Section II of the MSDS. Absorb spill in sand, earth or other suitable material. Transfer to appropriate container for disposal.

Section 7 - Handling and Storage

Handling and Storage Precautions:

Store under normal warehouse conditions below 80F. Prevent inhalation of vapor, ingestion, and contact with skin and eyes. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container.

Section 8 - Exposure Controls/Personal Protection

Respiratory:

Wear appropriate, properly fitted NIOSH/MSHA approved respirator when the airborne contaminant level(s) exceed the exposure limits indicated on the MSDS. Follow respirator manufacturer's directions for respirator use.

Skin:

Protect hands with impervious rubber gloves and wear typical full cover clothing. Prevent contact with skin. Gloves must be checked before each use for signs of degradation and penetration and for proper functioning.

Eyes:

Wear suitable safety eyewear.

Face:

Not required.

Engineering:

Use local exhaust when the general ventilation is not sufficient to keep the airborne contaminant concentration below the exposure limit in Section II of the MSDS.

Section 9 - Physical and Chemical Properties

Odor/Appearance:	MILD SOLVENT/NEUTRAL COLORED PASTE
Color:	NEUTRAL
Physical State:	Paste
pH:	N/A
Vapor Pressure:	Not Established
Vapor Density:	>1
Boiling Point:	N/A
Melting Point:	N/A
Freezing Point:	N/A
Solubility in Water:	Negligible
Specific Gravity:	1.234
% Volatile Weight:	5.0

Section 10 - Reactivity/Stability

Stability:

Stable

Incompatible Products:

Avoid contact with strong oxidizing agents.

Conditions to Avoid Polymerization:

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Eyes: N/A
Ingestion: N/A
Inhalation: N/A
Skin: N/A
Subchronic: N/A
Chronic: N/A

Section 12 - Ecological Information

Ecotoxicological Data: N/A
Chemical Fate: N/A

Section 13 - Disposal Considerations

RCRA Class: N/A

Disposal Method:
Not regulated by RCRA. Dispose of in compliance with state and local regulations.

EPA Reportable Quantities

N/A

Section 14 - Transportation Data

DOT Shipping Name: NOT REGULATED

DOT Hazard Class:
DOT Label:
UN/NA Number: BELOW
Packing Group:
Special Provisions:
Packaging

Exceptions:
Non-Bulk:
Bulk:

Quantity Limitations

Passenger Aircraft or Railcar:
Cargo Aircraft:
Vessel Stowage Requirements

Vessel Stowage:
Other Stowage:

Transportation Notes: N/A

Section 15 - Regulatory Information

TSCA Status: On the TSCA Inventory
OSHA Status: Considered hazardous based on the following criteria:
IARC Carcinogen

Irritant
Sensitizer

Target Organs

Liver
Kidney
Nerve
Reproductive
Lung
Skin
Eye

OSHA Hazardous Components

CAS Number

CALCIUM CARBONATE (LIMESTONE) 1317-65-3
* CRYSTALLINE SILICA (QUARTZ) 14808-60-7
CHLORINATED PARAFFIN WAX Trade Secret
STODDARD SOLVENT (MINERAL SPIRITS) 8052-41-3
TOLUENE (METHYLBENZENE) 108-88-3
* - CHEMICAL IS LISTED AS AN IARC, NTP, OSHA, or ACGIH CARCINOGEN

Compliance Quantities

Source Type Threshold Unit of Measure
N/A N/A N/A

SARA 311 Ratings

Immediate Health Hazard: N
Delayed Health Hazard: Y
Fire Hazard: Y
Reactivity Hazard: N
Sudden Release of Pressure Hazard: N

SARA 313 Ingredients

CAS Number

CHLORINATED PARAFFIN WAX Trade Secret
TOLUENE (METHYLBENZENE) 108-88-3

Proposition 65 Ingredients

Chemicals known to the State of California to cause cancer or
birth defects or other reproductive harm

CAS Number

CRYSTALLINE SILICA (QUARTZ) 14808-60-7
TOLUENE (METHYLBENZENE) 108-88-3

Section 16 - Other Information

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN.
THE HAZARD INFORMATION HEREIN IS OFFERED SOLELY FOR THE CONSIDERATION
OF THE USER, SUBJECT TO HIS OWN INVESTIGATION OF COMPLIANCE WITH APPLICABLE
REGULATIONS, INCLUDING THE SAFE USE OF THE PRODUCT UNDER EVERY FORESEEABLE
CONDITION.