



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: 876026 320

Product Name: TREMSEAL S
Chemical Family: Sealant
Product Code: 876-003
MSDS Preparer: C. R. BRUNO
Date Prepared: 30-JUN-95
Replaces Date: 11-MAY-94

Other Applications:

THIS MATERIAL SAFETY DATA SHEET APPLIES TO TREMSEAL S COLORS WITH THE FOLLOWING CODE NUMBERS AND COLORS:
876-003 ALUMINUM/STONE 876-020 BRONZE 876-025 BLACK 876-026 WHITE
876-105 LIMESTONE

Section 2 - Molecular Composition

Common Name and Chemical Name Exposure Limits	Weight %	CAS Number
CALCIUM CARBONATE (LIMESTONE) OSHA: TWA 15 mg/M3 STEL - ACGIH: TWA 10 mg/M3 STEL -	40.0-45.0 (total dust, 5mg/M3 respirable fraction) (total dust, no asbestos, <1% SiO2)	1317-65-3
SILICONE POLYMER OSHA: TWA - STEL - ACGIH: TWA - STEL -	40.0-45.0	Trade Secret
AMINOSILANE OSHA: TWA - STEL - ACGIH: TWA - STEL -	1.0-5.0	Trade Secret
AMINOSILANE OSHA: TWA - STEL - ACGIH: TWA - STEL -	1.0-5.0	Trade Secret
AMINOSILANE OSHA: TWA - STEL - ACGIH: TWA - STEL -	1.0-5.0	Trade Secret
CARBON BLACK OSHA: TWA 3.50 mg/M3 STEL - ACGIH: TWA 3.50 mg/M3 STEL -	1.0-5.0	1333-86-4
TITANIUM DIOXIDE OSHA: TWA 10 mg/M3 STEL - ACGIH: TWA 10 mg/M3 STEL -	1.0-5.0 (total dust, no asbestos, <1% SiO2)	13463-67-7

As by-products of manufacturing and curing, sec-butylamine (TLV = 5 ppm - ceiling) and cyclohexylamine (PEL, TLV = 10 ppm TWA) can be released within the product.

Section 3 - Hazards Identification

Emergency Overview:

Various colored paste. If inhaled, can cause headache, dizziness, irritation to respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention immediately. As by-products of manufacturing and curing, sec-butylamine (TLV = 5 ppm - ceiling) and cyclohexylamine (PEL, TLV =10 ppm TWA) can be released within the product.

Potential Health Effect/Rte of Entry:

Inhalation:

Can cause headache, dizziness, nausea, drowsiness, stupor, irritation to respiratory system.

Eyes:

Can cause irritation, burns.

Ingestion:

Can cause burns to stomach, mouth and throat.

Skin:

Can cause irritation, burns.

Acute Health Effects:

Not established.

Chronic Health Effects:

Overexposure to amines can cause severe irritation to skin, eyes and respiratory system, conjunctivities, injury to respiratory tract, burns to mouth, throat and stomach. No other health hazards are known at this time.

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:	N/A
Upper Flammability Limit:	N/A
Autoignition Temperature:	Not Established

Extinguishing Media:

Water fog.

Fire and Explosion Hazards:

Not Applicable

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:

Oxides of nitrogen and silicon can form.

Section 6 - Accidental Release Measures

Release Response Overview:

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. Prevent inhalation of vapor, ingestion, and contact with skin and eyes. Keep container closed when not in use. Precautions also apply to emptied containers. Change soiled workclothes frequently. Clean hands thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment.

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: AMINE/VARIOUS COLORED PASTE
Color: VARIOUS
Physical State: Paste
pH: N/A
Vapor Pressure: N/A
Vapor Density: N/A
Boiling Point: N/A
Melting Point: N/A
Freezing Point: N/A
Solubility in Water: Negligible
Specific Gravity: 1.35
% Volatile Weight: 0.0

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

CERCLA Reportable Quantity: N/A

Section 14 - Transportation Data

DOT Shipping Name: CORROSIVE SOLID N. O. S. (POLYALIPHATIC AMINES), CLASS 8, UN1759, PG III
DOT Hazard Class: CORROSIVE MATERIAL
DOT Label: HAZARDOUS
UN/NA Number: UN1759
Packaging Group: III
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:
Corrosive
Irritant

Target Organs

Lung
Skin

Eye
Mouth, Throat

OSHA Hazardous Components

No OSHA Hazardous Components

Compliance Quantities

No Compliance Quantities

SARA 311 Ratings

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

SARA 313 Ingredients

No SARA 313 Ingredients

Proposition 65 Ingredients

No Proposition 65 Ingredients

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.