



MATERIAL SAFETY DATA SHEET

PTi Paste – Tube Formulation, Part A

| 24 Hour Emergency | General MSDS Information | HMIS | | |
|------------------------------|--------------------------|--------|------|------------|
| 847-367-6964 or 630-784-8803 | 847-367-6964 | Health | Fire | Reactivity |
| | | 0 | 1 | 0 |

1. **Chemical Family:** Polysulfide sealant base
 Date Prepared: February 28, 2003
 Date Revised:

2. **HAZARDOUS INGREDIENTS:**

| Common Name | CAS # | Approximate % (w/w) |
|-------------------------------------|-------------|---------------------|
| Calcium carbonate | 471-34-1 | 5 - 10 |
| Talc | 14807-96-6 | 1 - 5 |
| Glycidoxypropyltrimethoxysilane | 2530-83-8 | 1 - 5 |
| Toluene | 108-88-3 | 1 - 5 |
| Non-hazardous and other ingredients | Proprietary | |
| Balance below reportable levels | | |

3. **HEALTH HAZARD DATA:**

Emergency Overview: Ingestion may cause nausea, vomiting, pain, upset stomach, diarrhea. May cause eye irritation. Prolonged or repeated contact may cause skin irritation. Prolonged exposure may cause eye, nose and respiratory tract irritation. Do not swallow. See sections 3, 5, & 6.

Primary Routes of Exposure: Eye. Skin. Inhalation (breathing).

Eye Contact: May cause slight to mild irritation.

Skin Contact: Prolonged or repeated contact may cause irritation.

Inhalation (Breathing): Can be irritating to eyes, nose, and respiratory tract following prolonged exposure.

Ingestion (Swallowing): Not hazardous in normal industrial use. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea).

Target Organs/Chronic Effects: None known.

Carcinogenicity:

| | ACGIH | IARC | NTP | OSHA |
|---------------------------------|-------|------|-----|------|
| Calcium carbonate | No | No | No | No |
| Talc | No | No | No | No |
| Glycidoxypropyltrimethoxysilane | No | No | No | No |
| Toluene | No | No | No | No |

Conditions Aggravated By Exposure: Exposure to this product is not expected to contribute, worsen or aggravate any pre-existing medical conditions.

4. **FIRST AID:**

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

Skin Contact: Immediately flush with water. Remove contaminated clothing and shoes. Get medical attention if irritation persists. Professionally wash clothing and shoes before re-use.

Inhalation (Breathing): Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

Ingestion (Swallowing): Seek medical attention. Immediately induce vomiting, as directed by medical personnel. Never give anything by mouth to an unconscious person.

Notes To Physicians: Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. **FIRE & EXPLOSION HAZARD DATA:**

| | | | |
|--------------------|----------------|--------------|----------------|
| Flash Point | 105°F (40.5°C) | Method | Not Applicable |
| Explosive Lmts ... | LEL(%) 1.2% | UEL(%) | 7.0% |
| Autoignition | Not Applicable | | |



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Hazardous Combustion And Decomposition Products: Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Formaldehyde and/or other aldehydes. Oxides of sulfur. Hydrogen sulfide. Low molecular weight hydrocarbons.

Fire And Explosion Hazards: During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

Extinguishing Media: Small Fires: Dry chemical, carbon dioxide, halon, water spray, or foam. Large Fires: Water spray, fog, or alcohol foam.

Fire Fighting Procedures/Equipment: Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ENVIRONMENTAL & DISPOSAL INFORMATION:

Evacuation: Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Containment: Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

Clean-Up/Personal Protection Equipment: Appropriate safety measures and protective equipment should be used. Use supplied air respirator or self-contained breathing apparatus in enclosed spaces or if airborne exposure limits can be exceeded.

Collection And Disposal: Stop discharge, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

Reporting: Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. No regulated ingredients.

7. HANDLING AND STORAGE:

Storage Temperature < 100°F 37.7°C

Storage Conditions: Store in cool, dry, well-ventilated area.

Transfer: No special precautions are needed. Follow good manufacturing and handling practices.

Personal Hygiene: Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles, faceshield, and gloves. Professionally launder contaminated clothing before re-use.

Empty Container Precautions: Attention! This container can be hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

Exposure Guidelines:

ACGIH - TLV

Calcium carbonate

10 mg/M3 Total dust

Talc

2 mg/M3 Resp. dust

Manufacturer's PEL/TLV

Glycidoxypropyltrimethoxysilane

5 ppm

Toluene

50 ppm (skin) TWA

300 ppm Pelceiling

Manufacturer's STEL

Glycidoxypropyltrimethoxysilane

10 ppm

OSHA - PEL

Calcium carbonate

5 mg/M3 Resp. dust

Talc

2 mg/M3 Resp. dust

Engineering Controls/Ventilation: Local exhaust ventilation is recommended when vapors, mists, or dusts can be released in excess of established airborne exposure limits (TLVs or PELs).

Eye Protection: Wear chemical splash goggles or safety glasses with side shields. An eye wash facility should be readily available.

Skin Protection: Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult a glove manufacturer to determine the proper type for a specific operation.



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Respiratory Protection: Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

9. PHYSICAL DATA:

| | | | |
|----------------------|-----------------------------------|------------------|----------------|
| Appearance | Off-white | Odor | Mercaptan |
| Physical State | Paste | Solubility | Insoluble |
| pH: | Not Applicable | Vapor Pressure : | Not Applicable |
| Vapor Density | Not Applicable | Evaporation Rt : | Not Applicable |
| VOC Material | Approximately 2.8 g/L 0.1 lbs/gal | Specific Grvty : | 1.36 |
| VOC Coating | 39 g/L 0.33 lbs/gal | | |
| %Non-Vol (w/w) : | 96-98 | | |

Note: The physical data presented above are typical values and should not be construed as a specification.

10. REACTIVITY DATA:

Chemical Stability: Stable under normal conditions of use.

Hazardous Polymerization: Will not occur.

Conditions To Avoid: Not applicable.

Incompatibility With Other Materials: Oxidizers. Reducers. Acids.

11. TOXICITY DATA:

Components:

Calcium carbonate: Repeated exposure to dusts can lead to particulate deposition in the lungs (i.e., pneumoconiosis).

Chlorinated paraffin wax: May cause transient irritation to eyes and/or skin.

Phthalic acid, benzyl/alkyl (C7-C8) ester:

| | | |
|-------------|--------|----------------|
| Oral LD50 | Rat | > 15,800 mg/kg |
| Dermal LD50 | Rabbit | > 7,940 mg/kg |

Manganese oxide: Eye, skin, and respiratory tract irritant. Can cause liver and kidney injury.

Titanium Dioxide: In a 2 year study in rats, an increase in benign and malignant lung tumors was observed at 250 mg/M3 respirable dust level. This level is 50 times the current occupational exposure level and is not expected to correlate to human exposures.

Toluene- NO DATA

12. ECOLOGICAL DATA:

No data are available on this product.

13. DISPOSAL INFORMATION:

Disposal: Dispose in accordance with all local, state, and federal regulations.

General Statements: Federal regulations may apply to empty containers. State and/or local regulations may be different.

General Recommendations: Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Special Instructions: Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORTATION INFORMATION:

| | | | | |
|---------------------------|----|-----|------|-----|
| Weight (lb) Shipping Name | 49 | CRF | IATA | IMO |
| Non-regulated | | Y | Y | Y |

DOT Label.....: Not applicable UN/NA Id Num. : Not Applicable



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15. REGULATORY INFORMATION:

Federal: This product is considered hazardous under the OSHA Hazard Communication Standard (29 CAR 1910.1200).

SARA Title III - Section 311/312 - Hazard Categories:

- No - Fire Hazard
- No - Sudden Release of Pressure Hazard
- No - Reactivity Hazard
- Y - Immediate (acute) Health Hazard
- Y - Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals - No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat - No regulated ingredients.

SARA Section 313 Toxic Chemicals

Manganese oxide

Chemical Listing - Listed on the following Country Chemical Inventories:

United States Toxic Substance Control Act

Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

State Right-To-Know:

Pennsylvania - New Jersey R-T-K

| | | |
|---|-------------|---------|
| Calcium carbonate | 471-34-1 | 30 - 40 |
| Chlorinated paraffin wax | 63449-39-8 | 20 - 30 |
| Phthalic acid, benzyl/alkyl (C7-C8) ester | 68515-40-2 | 20 - 30 |
| Manganese oxide | 1313-13-9 | 5 - 10 |
| Titanium Dioxide | 13463-67-7 | 1 - 5 |
| Non-hazardous trade secret ingredient(s) | Proprietary | |
| Toluene | 108-88.3 | 1 - 5 |

California - California Proposition 65 - No regulated ingredients.

CONEG - No data available.

Canada: This is a controlled product under the Canadian Workplace Hazardous Materials Information System (WHMIS).

Class D Division 2 Sub-division B

CEPA - NPRI

Manganese oxide

16. ADDITIONAL INFORMATION:

Users Responsibility: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein- are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

The information herein is given in good faith. No warranty, expressed or implied, is given regarding the accuracy of these data or the results obtained from the use thereof. Consult Prevention Technologies, Inc. for further information.