1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite PL Premium Max Construction Adhesive
IDH number: 2292244

Product type: Adhesive
Restriction of Use: None identified

Company address:
Henkel Corporation
One Henkel Way
Rocky Hill, Connecticut 06067

Region: United States

Contact information:
Telephone: +1 (860) 571-5100
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING: MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION.

<table>
<thead>
<tr>
<th>HAZARD CLASS</th>
<th>HAZARD CATEGORY</th>
</tr>
</thead>
<tbody>
<tr>
<td>EYE IRRITATION</td>
<td>2A</td>
</tr>
<tr>
<td>SKIN SENSITIZATION</td>
<td>1</td>
</tr>
</tbody>
</table>

PICTOGRAM(S)

Precautionary Statements

Prevention: Avoid breathing dust or fumes. Wash affected area thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.

Response: IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Wash contaminated clothing before reuse.

Storage: Not prescribed
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

2 % of the mixture consists of ingredient(s) of unknown acute toxicity.


See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS
<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>CAS Number</th>
<th>Percentage*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>14808-60-7</td>
<td>50 - 60</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Trimethoxyphenylsilane</td>
<td>2996-92-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>2768-02-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Gamma-glycidoxypropyl trimethoxysilane</td>
<td>2530-83-8</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propylamine</td>
<td>13822-56-5</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethylenediamine</td>
<td>1760-24-3</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

Exposure to moisture during cure will release 1-2% methanol.

4. FIRST AID MEASURES

**Inhalation:** Move to fresh air. If symptoms persist, seek medical advice.

**Skin contact:** Wash with soap and water. If skin irritation persists, call a physician. Wipe off paste with paper towel or cloth.

**Eye contact:** Flush with copious amounts of water, preferably, lukewarm water for at least 15 minutes, holding eyelids open all the time. If symptoms develop and persist, get medical attention.

**Ingestion:** Do not induce vomiting. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

**Symptoms:** See Section 11.

5. FIRE FIGHTING MEASURES

**Extinguishing media:** carbon dioxide, foam, powder, water spray jet, fine water spray

**Special firefighting procedures:** Wear protective equipment. Wear self-contained breathing apparatus.

**Unusual fire or explosion hazards:** None identified.

**Hazardous combustion products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

6. ACCIDENTAL RELEASE MEASURES

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

**Environmental precautions:** Do not allow product to enter sewer or waterways.

**Clean-up methods:** Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Store in a partly filled, closed container until disposal. Spilled material will solidify. Scrape up as much material as possible. Maintain good ventilation for large spills.
7. HANDLING AND STORAGE

Handling: Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation. Avoid contact with eyes, skin and clothing. Keep out of the reach of children. Protect from moisture. Use only with adequate ventilation.

Storage: For safe storage, store between -20 °C (-4°F) and 40 °C (104°F)
Store in a cool, dry area. Avoid moisture.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>AIHA WEEL</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>0.025 mg/m3 TWA</td>
<td>2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA</td>
<td>0.05 mg/m3 TWA (Respirable dust.) 0.025 mg/m3</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Respirable fraction.</td>
<td>OSHA ACT Respirable dust.</td>
<td>OSHA ACT Respirable dust.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.05 mg/m3 PEL Respirable dust.</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Limestone</td>
<td>10 mg/m3 TWA Total dust.</td>
<td>5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Total dust.</td>
<td>Total dust.</td>
<td></td>
<td>None</td>
</tr>
<tr>
<td>Trimethoxyphenylsilane</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Gamma-glycidoxypropyl trimethoxysilane</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)propylamine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethylenediamine</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering controls: Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Physical state:                           | Solid            |
| Color:                                   | Gray             |
| Odor:                                    | Characteristic   |
| Odor threshold:                          | Not available.   |
| pH:                                      | Not applicable.  |
| Vapor pressure:                          | Not applicable.  |
| Boiling point/range:                     | Not applicable.  |
| Melting point/range:                     | Not applicable.  |
Specific gravity: 1.6 - 1.7
Vapor density: Heavier than air.
Flash point: 107 °C (224.6 °F)
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not applicable
Flammability: Not applicable
Evaporation rate: Not applicable
Solubility in water: Insoluble
Partition coefficient (n-octanol/water): Not available.
VOC content: 4%; 64 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)
Viscosity: 1,200,000 mPa.s
Decomposition temperature: Not available.

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.
Hazardous reactions: Will not occur.
Hazardous decomposition products: Methanol is liberated slowly upon exposure to moisture.
Incompatible materials: Oxidizing agents.
Reactivity: Not available.
Conditions to avoid: Exposure to moisture.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Inhalation, Skin contact, Eye contact
Potential Health Effects/Symptoms

**Inhalation:** May be harmful if inhaled. Methanol is released during application and cure, which may affect the nervous system causing dizziness, headache or nausea. Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this product causes no such release.

**Skin contact:** Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation. Symptoms include itching, burning, redness and tearing.

**Ingestion:** Harmful if swallowed. Not expected under normal conditions of use.

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>LD50s and LC50s</th>
<th>Immediate and Delayed Health Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>None</td>
<td>Immune system, Lung, Some evidence of carcinogenicity</td>
</tr>
<tr>
<td>Limestone</td>
<td>None</td>
<td>Nuisance dust</td>
</tr>
<tr>
<td>Trimethoxyphenylsilane</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>Gamma-glycidoxypropyl trimethoxyxilane</td>
<td>None</td>
<td>Allergen, Irritant</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)proplamine</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethyleneamine</td>
<td>None</td>
<td>Irritant, Allergen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>Known To Be Human Carcinogen.</td>
<td>Group 1</td>
</tr>
<tr>
<td>Limestone</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Trimethoxyphenylsilane</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Trimethoxyvinylsilane</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Gamma-glycidoxypropyl trimethoxyxilane</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>3-(Trimethoxysilyl)proplamine</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>N-(3-(Trimethoxysilyl)propyl)ethyleneamine</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

12. ECOLOGICAL INFORMATION

**Ecological information:** Not available.
13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: It is the responsibility of the user to determine if an item is hazardous as defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

International Air Transportation (ICAO/IATA)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

Water Transportation (IMO/IMDG)
- Proper shipping name: Not regulated
- Hazard class or division: None
- Identification number: None
- Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information
- TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
- TSCA 12 (b) Export Notification: None above reporting de minimis
- CERCLA/SARA Section 302 EHS: None above reporting de minimis.
- CERCLA/SARA Section 311/312: Delayed Health, Immediate Health
- CERCLA/SARA Section 313: None above reporting de minimis.
- California Proposition 65: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. This product contains a chemical known in the State of California to cause cancer.

Canada Regulatory Information
- CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
- CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: This Safety Data Sheet contains changes from the previous version in Section(s): 11

Prepared by:  Product Safety and Regulatory Affairs
Issue date:  07/03/2018

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