1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>Loctite PL500 Landscape Construction Adhesive</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDH number:</td>
<td>1683231</td>
</tr>
<tr>
<td>Region:</td>
<td>United States</td>
</tr>
<tr>
<td>Contact information:</td>
<td>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: <a href="http://www.henkelna.com">www.henkelna.com</a></td>
</tr>
</tbody>
</table>

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

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS.

HAZARD CLASS | HAZARD CATEGORY
-------------|------------------
FLAMMABLE LIQUID | 2
EYE IRRITATION | 2A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3

PICTOGRAM(S)

Precautionary Statements

Prevention:
Keep away from heat, sparks, open flames, hot surfaces - no smoking. Keep container tightly closed. No release into water. Use explosion-proof equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves, eye protection, and face protection.

Response:
If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

Storage:

Disposal:
Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.


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>Limestone</td>
<td>1317-65-3</td>
<td>30 - 40</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>10 - 20</td>
</tr>
<tr>
<td>Petroleum resins</td>
<td>64742-16-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Rosin ester</td>
<td>Proprietary</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>79-20-9</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>14808-60-7</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.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Immediately wash skin thoroughly with soap and water. If symptoms develop and persist, get medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Do not induce vomiting, seek medical advice immediately.

Symptoms: See Section 11.

Notes to physician: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Extinguishing media: Foam, dry chemical or carbon dioxide. In case of fire, keep containers cool with water spray.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode. Wear full protective clothing.

Unusual fire or explosion hazards: Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors are heavier than air and may travel along floor to an ignition source.

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: Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Ventilate area. Wear appropriate protective equipment and clothing during clean-up. Prevent further leakage or spillage if safe to do so. Do not allow product to enter sewer or waterways.
Clean-up methods:
Use noncombustible absorbent material such as sand. Use non-sparking tools for clean-up. Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7. HANDLING AND STORAGE

Handling:
Do not pressurize, cut, heat or weld containers. Empty product containers may contain product residue. Do not reuse empty containers. Use only in well-ventilated areas. Keep out of the reach of children. Keep away from heat, spark and flame. Containers should be grounded and bonded to the receiving container.

Storage:
For safe storage, store between -20 °C (-4°F) and 50 °C (122°F) Keep away from heat, spark and flame. Keep containers closed when not in use.

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>Limestone</td>
<td>10 mg/m³ TWA Total dust.</td>
<td>5 mg/m³ PEL Respirable fraction. 15 mg/m³ PEL Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Acetone</td>
<td>250 ppm TWA 500 ppm STEL</td>
<td>1,000 ppm (2,400 mg/m³) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Limestone</td>
<td>2 mg/m³ TWA Respirable fraction.</td>
<td>5 mg/m³ PEL Respirable fraction. 15 mg/m³ PEL Total dust. 15 MPPCF TWA Respirable fraction. 50 MPPCF TWA Total dust. 5 mg/m³ TWA Respirable fraction. 15 mg/m³ TWA Total dust.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Petroleum resins</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Rosin ester</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>200 ppm TWA 250 ppm STEL</td>
<td>200 ppm (610 mg/m³) PEL</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>10 mg/m³ TWA</td>
<td>15 mg/m³ PEL Total dust. 15 MPPCF TWA Respirable fraction. 15 mg/m³ TWA Total dust. 50 MPPCF TWA Total dust. 5 mg/m³ TWA Respirable fraction.</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>0.025 mg/m³ TWA Respirable fraction.</td>
<td>2.4 MPPCF TWA Respirable. 0.1 mg/m³ TWA Respirable. 0.05 mg/m³ TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m³ OSHA_ACT Respirable dust. 0.05 mg/m³ PEL Respirable dust.</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 a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. When workplace hazards warrant the use of a respirator, appropriate respirators must be used, and a program that follows 29 CFR 1910.134 must be followed.

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

**Skin protection:**
Chemical resistant, impermeable gloves.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Light tan</td>
</tr>
<tr>
<td>Odor:</td>
<td>Acetone</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not available.</td>
</tr>
<tr>
<td>pH:</td>
<td>7</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point/range:</td>
<td>56 - 57 °C (132.8 - 134.6 °F)</td>
</tr>
<tr>
<td>Melting point/ range:</td>
<td>&lt; 0 °C (&lt; 32°F)</td>
</tr>
<tr>
<td>Specific gravity:</td>
<td>1.44</td>
</tr>
<tr>
<td>Vapor density:</td>
<td>2.0</td>
</tr>
<tr>
<td>Flash point:</td>
<td>-17 °C (1.4 °F)</td>
</tr>
<tr>
<td>Flammable/Explosive limits - lower:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammable/Explosive limits - upper:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Autoignition temperature:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>14.4</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Miscible</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not available.</td>
</tr>
<tr>
<td>VOC content:</td>
<td>0.25 %; 7.5 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method)</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>210,000 mPa.s</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability:</td>
<td>Stable under normal conditions of storage and use.</td>
</tr>
<tr>
<td>Hazardous reactions:</td>
<td>Will not occur.</td>
</tr>
<tr>
<td>Hazardous decomposition products:</td>
<td>Carbon dioxide, carbon monoxide and irritating and/or toxic gases and particulate may be generated by thermal decomposition or combustion.</td>
</tr>
<tr>
<td>Reactivity:</td>
<td>Not available.</td>
</tr>
<tr>
<td>Conditions to avoid:</td>
<td>Heat, flames, sparks and other sources of ignition.</td>
</tr>
</tbody>
</table>

11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relevant routes of exposure:</td>
<td>Skin, Inhalation, Eyes, Ingestion</td>
</tr>
</tbody>
</table>
Potential Health Effects/Symptoms

**Inhalation:** May cause nose, throat and lung irritation. 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:** Causes skin irritation.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May be harmful if swallowed.

<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>Limestone</td>
<td>None</td>
<td>Nuisance dust</td>
</tr>
</tbody>
</table>
| Acetone                | Oral LD50 (Mouse) = 5.2 g/kg  
Oral LD50 (Mouse) = 3,000 mg/kg  
Oral LD50 (Rabbit) = 5,340 mg/kg  
Oral LD50 (Rat) = 5,800 mg/kg  
Oral LD50 (Rat) = 9,800 mg/kg  
Dermal LD50 (Rabbit) = 20,000 mg/kg | Central nervous system, Irritant |
| Kaolin                 | Oral LD50 (Rat) = > 5,000 mg/kg  
Dermal LD50 (Rat) = > 5,000 mg/kg | Nuisance dust |
| Petroleum resins       | None            | Central nervous system              |
| Rosin ester            | None            | Irritant                            |
| Methyl acetate         | Oral LD50 (Rabbit) = 3.7 g/kg  | Blood, Central nervous system, Eyes, Irritant |
| Titanium dioxide       | None            | Irritant, Respiratory, Some evidence of carcinogenicity |
| Quartz (SiO2), <1% respirable | None | Immune system, Lung, Some evidence of carcinogenicity |

<table>
<thead>
<tr>
<th>Hazardous Component(s)</th>
<th>NTP Carcinogen</th>
<th>IARC Carcinogen</th>
<th>OSHA Carcinogen (Specifically Regulated)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Acetone</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Kaolin</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Petroleum resins</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Rosin ester</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Methyl acetate</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>No</td>
<td>Group 2B</td>
<td>No</td>
</tr>
<tr>
<td>Quartz (SiO2), &lt;1% respirable</td>
<td>Known To Be Human Carcinogen.</td>
<td>Group 1</td>
<td>Yes</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: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: D018: Benzene. 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: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II
DOT Hazardous Substance(s): Acetone

International Air Transportation (ICAO/IATA)

Proper shipping name: Adhesives
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

Water Transportation (IMO/IMDG)

Proper shipping name: ADHESIVES
Hazard class or division: 3
Identification number: UN 1133
Packing group: II

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: Immediate Health, Delayed Health, Fire
CERCLA/SARA Section 313: None above reporting de minimis.
CERCLA Reportable quantity:
Acetone (CAS# 67-64-1) 5,000 lbs. (2,270 kg)
Methyl acetate (CAS# 79-20-9) 100 lbs. (45.4 kg)
California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

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): 2, 3, 8, 11, 15, 16

Prepared by: Product Safety and Regulatory Affairs

Issue date: 06/06/2018

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