**Revision Number:** 003.1

**Issue date:** 10/28/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** **Loctite® PL® Polyurethane Self-Leveling Concrete Crack Sealant**

**IDH number:** 1618150

**Product type:** Sealant

**Restriction of Use:** None identified

**Region:** United States

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

**Contact information:**
Telephone: +1 (800) 624-7767
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

## 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**

DANGER**:**
COMBUSTIBLE LIQUID.
CAUSES SKIN IRRITATION.
MAY CAUSE AN ALLERGIC SKIN REACTION.
CAUSES SERIOUS EYE IRRITATION.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED.

| HAZARD CLASS | HAZARD CATEGORY |
|---|---|
| FLAMMABLE LIQUID | 4 |
| SKIN IRRITATION | 2 |
| EYE IRRITATION | 2A |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |

**PICTOGRAM(S)**

**Precautionary Statements**

**Prevention:** Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection. In case of inadequate ventilation wear respiratory protection.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing. In case of fire: Use foam, dry chemical or carbon dioxide to extinguish.

**Storage:** Store in a well-ventilated place. Keep cool.

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

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**See Section 11 for additional toxicological information.**

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|---|---|---|
| Limestone | 1317-65-3 | 30 - 60 |
| Bis(2-propylheptyl) phthalate | 53306-54-0 | 5 - 10 |
| Stoddard solvent, <0.1% Benzene | 8052-41-3 | 5 - 10 |
| Talc | 14807-96-6 | 5 - 10 |
| Calcium oxide | 1305-78-8 | 1 - 5 |
| Toluene-2,4-diisocyanate | 584-84-9 | 1 - 5 |
| Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters | 125643-61-0 | 1 - 5 |
| Titanium dioxide | 13463-67-7 | 5 - 10 |
| Toluene-2,6-diisocyanate | 91-08-7 | 1 - 5 |

* Exact percentage is a 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. Immediate medical treatment necessary.

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

**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:** An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.Treatment based on judgement of the physician in response to reactions of the patient.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray (fog), foam, dry chemical or carbon dioxide.

**Special firefighting procedures:** Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

**Unusual fire or explosion hazards:** None known

**Hazardous combustion products:** Nitrous gases Irritating fumes. Isocyanate vapors.

## 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:** Ventilated 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:** Scrape up spilled material and place in a closed container for disposal. Dispose of according to Federal, State and local governmental regulations.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with eyes, skin and clothing. Avoid extreme temperatures. Wash thoroughly after handling. Protect from moisture. Use only with adequate ventilation.

**Storage:** For safe storage, store between 18.3 °C (64.9 °F) and 40 °C (104°F) Avoid moisture. Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for 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.**

| Hazardous Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|---|---|---|---|
| Limestone | 10 mg/m3 TWA Total dust. | 5 mg/m3 PEL Respirable fraction. 15 mg/m3 PEL Total dust. | None | None |
| Bis(2-propylheptyl) phthalate | None | None | None | None |
| Stoddard solvent, <0.1% Benzene | 100 ppm TWA | 500 ppm (2,900 mg/m3) PEL | None | None |
| Talc | 2 mg/m3 TWA Respirable fraction. | 20 MPPCF TWA 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust. | None | 50 ppm |
| Calcium oxide | 2 mg/m3 TWA | 5 mg/m3 PEL | None | None |
| Toluene-2,4-diisocyanate | 0.005 ppm TWA 0.02 ppm STEL (Sensitizer.) | 0.02 ppm (0.14 mg/m3) Ceiling | None | None |
| Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters | None | None | None | None |
| Titanium dioxide | 10 mg/m3 TWA | 15 mg/m3 PEL Total dust. | None | None |
| Toluene-2,6-diisocyanate | 0.005 ppm TWA 0.02 ppm STEL (Sensitizer.) | None | None | None |

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

| | |
|---|---|
| **Respiratory protection:** | Observe OSHA regulations for respirator use (29 CFR 1910.134). Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. Respirator with combination filter for vapor/particulate. |
| **Eye/face protection:** | Safety glasses with side-shields. Full face protection should be used if the potential for splashing or spraying of product exists. |
| **Skin protection:** | Use impermeable gloves and protective clothing as necessary to prevent skin contact. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Physical state:** | high viscosity |
| **Color:** | grey |
| **Odor:** | Slight |
| **Odor threshold:** | Not available. |
| **pH:** | not applicable |
| **Vapor pressure:** | Not available. |
| **Boiling point/range:** | Not available. |
| **Melting point/ range:** | Not applicable |
| **Specific gravity:** | 0.97 |
| **Vapor density:** | Not available. |
| **Flash point:** | 81.5 °C (178.7 °F) Certificate of Supplier |
| **Flammable/Explosive limits - lower:** | Not available. |
| **Flammable/Explosive limits - upper:** | Not available. |
| **Autoignition temperature:** | Not applicable |
| **Evaporation rate:** | Not available. |
| **Solubility in water:** | Insoluble |
| **Partition coefficient (n-octanol/water):** | Not available. |
| **VOC content:** | 2.99 %; 29 g/l (by weight, calculated using CARB method; g/L less water, less exempts calculated using SCAQMD method) |
| **Viscosity:** | Not available. |
| **Decomposition temperature:** | Not available. |

## 10. STABILITY AND REACTIVITY

| | |
|---|---|
| **Stability:** | Stable under normal conditions of storage and use. |
| **Hazardous reactions:** | Contact with moisture, other materials that react with isocyanates, or temperatures above 350° F (177° C), may cause polymerization. |
| **Hazardous decomposition products:** | Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. nitrogen oxides Aromatic isocyanates. carbon oxides. carbon monoxide Hydrogen cyanide. |
| **Incompatible materials:** | Oxidizing agents. Alcohols. Water. Strong bases. |
| **Reactivity:** | Not available. |
| **Conditions to avoid:** | Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat. |

## 11. TOXICOLOGICAL INFORMATION

**Relevant routes of exposure:** Inhalation, Skin, Eyes, Ingestion

**Potential Health Effects/Symptoms**

**Inhalation:** As a result of previous repeated overexposures or a single large dose, certain individuals will develop isocyanate sensitization (chemical asthma) which will cause them to react to a later exposure to isocyanate at levels well below the TLV. Chronic overexposure to isocyanates has been reported to cause lung damage. Dryness of nasal passages, sore throat, cough, tightness of chest, shortness of breath. Persons suffering from allergic reactions to isocyanates should avoid contact with the product. This product may cause sensitization by inhalation and skin contact. May cause respiratory tract irritation.

**Skin contact:** Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals. This product may discolor the skin.

**Eye contact:** Contact with eyes will cause irritation.

**Ingestion:** Ingestion of this product may cause nausea, vomiting and diarrhea.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|---|---|---|
| Limestone | None | Nuisance dust |
| Bis(2-propylheptyl) phthalate | None | No Target Organs |
| Stoddard solvent, <0.1% Benzene | None | Central nervous system, Irritant |
| Talc | None | Irritant, Lung, Some evidence of carcinogenicity |
| Calcium oxide | None | Irritant, Corrosive, Eyes |
| Toluene-2,4-diisocyanate | Oral LD50 (RAT) = 5,800 mg/kg<br>Inhalation LC50 (RAT, 4 h) = 14 mg/l<br>Inhalation LC50 (RABBIT) = 11 mg/l | Allergen, Eyes, Irritant, Lung, Respiratory, Some evidence of carcinogenicity |
| Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters | None | No Data |
| Titanium dioxide | None | Irritant, Respiratory, Some evidence of carcinogenicity |
| Toluene-2,6-diisocyanate | None | Allergen, Bone Marrow, Corrosive, Eyes, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|---|---|---|
| Limestone | No | No | No |
| Bis(2-propylheptyl) phthalate | No | No | No |
| Stoddard solvent, <0.1% Benzene | No | No | No |
| Talc | No | Group 2B | No |
| Calcium oxide | No | No | No |
| Toluene-2,4-diisocyanate | Reasonably Anticipated to be a Human Carcinogen. | Group 2B | No |
| Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, C7-9-branched alkyl esters | No | No | No |
| Titanium dioxide | No | Group 2B | No |
| Toluene-2,6-diisocyanate | Reasonably Anticipated to be a Human Carcinogen. | Group 2B | No |

## 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:** U223: Toluene Diisocyanate. 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:** Toluene-2,4-diisocyanate (CAS# 584-84-9). Toluene-2,6-diisocyanate (CAS# 91-08-7).

**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Fire

**CERCLA/SARA Section 313:** This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene-2,4-diisocyanate (CAS# 584-84-9). Toluene-2,6-diisocyanate (CAS# 91-08-7).

**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:** One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

## 16. OTHER INFORMATION

**This safety data sheet contains changes from the previous version in sections:** New Safety Data Sheet format.

**Prepared by:** Mary Ellen Roddy, Sr. Regulatory Affairs Specialist

**Issue date:** 10/28/2014

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