



Revision Number: 000.0

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**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Loctite PL Polyurethane Roof & Flashing Sealant black  
**Product type:** Sealant  
**IDH number:** 1402253 1402254  
**Region:** United States  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067  
**Contact information:** Telephone: 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**

<b>Physical state:</b>	high viscosity	<b>HEALTH:</b>	*2
<b>Color:</b>	Black	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Slight, Solvent	<b>PHYSICAL HAZARD:</b>	1
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** COMBUSTIBLE!  
 HARMFUL IF INHALED.  
 CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
 MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

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

**Potential Health Effects**

**Inhalation:** This product may cause sensitization by inhalation and skin contact. May cause respiratory tract irritation. 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.

**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.

**Existing conditions aggravated by exposure:** Development of preexisting skin or lung allergy symptoms may increase. Asthma.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Limestone	1317-65-3	10 - 30
Methyl oleate	112-62-9	5 - 10
Titanium dioxide	13463-67-7	5 - 10
Stoddard solvent	8052-41-3	1 - 5
Talc	14807-96-6	1 - 5
Propylidynetrimethyl trimethacrylate	3290-92-4	1 - 5
Calcium oxide	1305-78-8	1 - 5
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1
Toluene-2,4-diisocyanate	584-84-9	0 - 0.1
Carbon black	1333-86-4	0.1 - 1

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If inhaled, immediately remove the affected person to fresh air. Immediate medical treatment necessary.
<b>Skin contact:</b>	Wash affected area immediately with soap and water. If symptoms develop and persist, get medical attention. Remove contaminated clothes.
<b>Eye contact:</b>	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
<b>Ingestion:</b>	Do not induce vomiting, seek medical advice immediately.
<b>Notes to physician:</b>	An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate. The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	85 °C (185°F) Certificate of supplier
<b>Autoignition temperature:</b>	None expected.
<b>Flammable/Explosive limits - lower:</b>	0.9 %
<b>Flammable/Explosive limits - upper:</b>	9.5 %
<b>Extinguishing media:</b>	Water fog. Foam Carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.
<b>Unusual fire or explosion hazards:</b>	None known
<b>Hazardous combustion products:</b>	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.

<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Ensure adequate ventilation. Scrape up spilled material and place in a closed container for disposal. Wear suitable protective clothing, gloves and eye/face protection.

## 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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Methyl oleate	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Stoddard solvent	100 ppm TWA	500 ppm (2,900 mg/m3) TWA	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
Propylidynetrimethyl trimethacrylate	None	None	1 mg/m3 TWA (SKIN)	None
Calcium oxide	2 mg/m3 TWA	5 mg/m3 TWA	None	None
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Toluene-2,4-diisocyanate	0.005 ppm TWA 0.02 ppm STEL (Sensitiser.)	0.02 ppm (0.14 mg/m3) Ceiling1	None	None
Carbon black	3.5 mg/m3 TWA	3.5 mg/m3 TWA	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 respiratory 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

<b>Physical state:</b>	high viscosity
<b>Color:</b>	Black
<b>Odor:</b>	Slight, Solvent
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not available
<b>Vapor pressure:</b>	< 4 mm hg (20 °C (68°F))
<b>Boiling point/range:</b>	121.1 - 251.1 °C (250°F - 484°F)
<b>Melting point/ range:</b>	Not available
<b>Specific gravity:</b>	1.1805
<b>Vapor density:</b>	Heavier than air.
<b>Flash point:</b>	85 °C (185°F) Certificate of supplier
<b>Flammable/Explosive limits - lower:</b>	0.9 %
<b>Flammable/Explosive limits - upper:</b>	9.5 %
<b>Autoignition temperature:</b>	None expected.
<b>Evaporation rate:</b>	< 0.1 Slower than butyl acetate., (Butyl acetate = 1)
<b>Solubility in water:</b>	Insoluble
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	< 4 %; < 44 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions of storage and use.
<b>Hazardous reactions:</b>	Contact with moisture, other materials that react with isocyanates, or temperatures above 350° F (177° C), may cause polymerization.
<b>Hazardous decomposition products:</b>	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.
<b>Incompatible materials:</b>	Oxidizing agents. Alcohols. Water. Strong bases.
<b>Conditions to avoid:</b>	Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute dermal product toxicity:</b>	May cause sensitization by skin contact.
<b>Acute inhalation product toxicity:</b>	May cause sensitization by inhalation., Danger of serious damage to health by prolonged exposure by inhalation.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Methyl oleate	No	No	No
Titanium dioxide	No	Group 2B	No
Stoddard solvent	No	No	No
Talc	No	No	No
Propylidynetrimehyl trimethacrylate	No	No	No
Calcium oxide	No	No	No
Quartz (SiO2)	Known carcinogen.	Group 1	No
Toluene-2,4-diisocyanate	Anticipated carcinogen.	Group 2B	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Limestone	Nuisance dust
Methyl oleate	No Target Organs
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Stoddard solvent	Irritant, Central nervous system
Talc	Irritant, Lung, Some evidence of carcinogenicity
Propylidynetrimehyl trimethacrylate	Irritant, Allergen
Calcium oxide	Irritant, Corrosive, Eyes
Quartz (SiO <sub>2</sub> )	Immune system, Lung, Some evidence of carcinogenicity
Toluene-2,4-diisocyanate	Allergen, Eyes, Irritant, Lung, Respiratory, Some evidence of carcinogenicity
Carbon black	Respiratory, Some evidence of carcinogenicity

## 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.

## 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

### 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 minimus

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health, Fire  
**CERCLA/SARA 313:** None above reporting de minimus

**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.  
**WHMIS hazard class:** D.2.B, D.2.A, B.3

**16. OTHER INFORMATION**

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

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

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