



Revision Number: 002.0

Issue date: 10/10/2011

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Loctite® PL® Polyurethane Roof and Flashing Sealant	IDH number:	1618181
Product type:	Sealant	Region:	United States
Company address:	Contact information:		
Henkel Corporation	Telephone: 800.624.7767		
One Henkel Way	MEDICAL EMERGENCY Phone: Poison Control Center		
Rocky Hill, Connecticut 06067	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

Physical state:	high viscosity	HMIS:	
Color:	Black	HEALTH:	*2
Odor:	Slight	FLAMMABILITY:	1
		PHYSICAL HAZARD:	1
		Personal Protection:	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:	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.

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	30 - 60
Bis(2-propylheptyl) phthalate	53306-54-0	5 - 10
Stoddard solvent	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
Polyalkylene glycol	52624-57-4	5 - 10
Toluene-2,6-diisocyanate	91-08-7	1 - 5
Carbon black	1333-86-4	1 - 5

4. FIRST AID MEASURES

Inhalation:	If inhaled, immediately remove the affected person to fresh air. Immediate medical treatment necessary.
Skin contact:	Wash affected area immediately 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.
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

Flash point:	89 °C (192.2 °F) Certificate of supplier
Autoignition temperature:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Water fog. Foam 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:	Do not empty into drains / surface water / ground water.
Clean-up methods:	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
Bis(2-propylheptyl) phthalate	None	None	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
Calcium oxide	2 mg/m3 TWA	5 mg/m3 TWA	None	None
Toluene-2,4-diisocyanate	0.005 ppm TWA 0.02 ppm STEL (Sensitiser.)	0.02 ppm (0.14 mg/m3) Ceiling	None	None
Polyalkylene glycol	None	None	None	None
Toluene-2,6-diisocyanate	0.005 ppm TWA 0.02 ppm STEL (Sensitiser.)	None	None	None
Carbon black	3.5 mg/m3 TWA 3 mg/m3 TWA Inhalable fraction.	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

Physical state: high viscosity
Color: Black
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:	1.20
Vapor density:	Not available.
Flash point:	89 °C (192.2 °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:	2.92 %; 35 g/l

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.
Conditions to avoid:	Avoid moisture. Keep away from open flames, hot surfaces and sources of ignition. Prolonged exposure to heat.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Bis(2-propylheptyl) phthalate	No	No	No
Stoddard solvent	No	No	No
Talc	No	No	No
Calcium oxide	No	No	No
Toluene-2,4-diisocyanate	Anticipated carcinogen.	Group 2B	No
Polyalkylene glycol	No	No	No
Toluene-2,6-diisocyanate	Anticipated carcinogen.	Group 2B	No
Carbon black	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
Limestone	Nuisance dust
Bis(2-propylheptyl) phthalate	No Data
Stoddard solvent	Irritant, Central nervous system
Talc	Irritant, Lung, Some evidence of carcinogenicity
Calcium oxide	Irritant, Corrosive, Eyes
Toluene-2,4-diisocyanate	Allergen, Eyes, Irritant, Lung, Respiratory, Some evidence of carcinogenicity
Polyalkylene glycol	No Records
Toluene-2,6-diisocyanate	Allergen, Bone Marrow, Corrosive, Eyes, Irritant, Mutagen, Respiratory, Some evidence of carcinogenicity
Carbon black	Respiratory, Some evidence of carcinogenicity

12. ECOLOGICAL INFORMATION

Ecological information:	Not available.
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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

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: 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.

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: First issue.

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