



Revision Number: 006.1

Issue date: 01/13/2010

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** LOCTITE 5600 SIL GRY 400ML HRDN  
**Product type:** Silicone Sealant  
**Company address:** Henkel Corporation  
 One Henkel Way  
 Rocky Hill, Connecticut 06067

**IDH number:** 988419  
**Item number:** 922544\_198973  
**Region:** United States  
**Contact information:**  
 Telephone: 860.571.5100  
 Emergency telephone: 860.571.5100  
 Internet: www.henkelna.com

## 2. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

<b>Physical state:</b>	Paste	<b>HEALTH:</b>	*2
<b>Color:</b>	translucent	<b>FLAMMABILITY:</b>	1
<b>Odor:</b>	Slight, Alcoholic	<b>PHYSICAL HAZARD:</b>	0
		<b>Personal Protection:</b>	See MSDS Section 8

**WARNING:** MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.  
 PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY  
 CAUSE BURNS TO SKIN AND EYES.

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

### Potential Health Effects

**Inhalation:** Inhalation of vapors from uncured sealant may cause respiratory tract irritation. Overexposure to methanol formed during cure may cause drowsiness, nausea, and vomiting. When heated to temperatures exceeding 300° F (150° C) in the presence of air, silicones may form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Vapors irritate the eyes, nose and throat. Safe handling conditions may be maintained by keeping formaldehyde vapor concentrations below the OSHA permissible limit.

**Skin contact:** Repeated or prolonged exposure may cause skin burns. May cause skin irritation.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation. Repeated or prolonged contact may cause burns.

**Ingestion:** May be harmful if swallowed. Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** None known

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	60 - 100
Dimethyl polysiloxane	63148-62-9	10 - 30
Silane derivative	Proprietary	1 - 5
Reactive Silane	Proprietary	1 - 5
Octadecanoic acid	57-11-4	1 - 5
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	68299-15-0	0.1 - 1
Quartz (SiO <sub>2</sub> )	14808-60-7	0.1 - 1



#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	If symptoms develop and persist, get medical attention. Move to fresh air in case of accidental inhalation of vapours or decomposition products.
<b>Skin contact:</b>	If skin irritation persists, call a physician. Wipe off paste with paper towel or cloth. Wash with soap and water.
<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>	Get medical attention. Prevent vomiting if possible.

#### 5. FIRE FIGHTING MEASURES

<b>Flash point:</b>	> 100 °C (> 212°F) ; Not determined
<b>Autoignition temperature:</b>	Not applicable
<b>Flammable/Explosive limits - lower:</b>	Not applicable
<b>Flammable/Explosive limits - upper:</b>	Not applicable
<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Prevent inhalation of fumes and gases.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Irritating organic vapours. Oxides of carbon. Formaldehyde. Oxides of silicon.

#### 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 allow material to contaminate ground water system.
<b>Clean-up methods:</b>	Scrape up as much material as possible. Maintain good ventilation for large spills. Place scrap material in a well ventilated area and allow to cure to rubber.

#### 7. HANDLING AND STORAGE

<b>Handling:</b>	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
<b>Storage:</b>	Store in a dry area below 90° F.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

#### 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
Dimethyl polysiloxane	None	None	None	None
Silane derivative	None	None	None	None
Reactive Silane	None	None	None	None
Octadecanoic acid	10 mg/m3 TWA	None	None	None
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	0.1 mg/m3 TWA (as Sn) 0.2 mg/m3 STEL (as Sn) (SKIN) (as Sn)	0.1 mg/m3 TWA (as Sn)	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

**Engineering controls:**

Ensure adequate ventilation, especially in confined areas.

**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

<b>Physical state:</b>	Paste
<b>Color:</b>	translucent
<b>Odor:</b>	Slight, Alcoholic
<b>Odor threshold:</b>	Not available
<b>pH:</b>	Not applicable
<b>Vapor pressure:</b>	Not available
<b>Boiling point/range:</b>	Not applicable
<b>Melting point/ range:</b>	Not available
<b>Specific gravity:</b>	1.8 at 20 °C (68°F)
<b>Vapor density:</b>	Not available
<b>Flash point:</b>	> 100 °C (> 212°F) ; Not determined
<b>Flammable/Explosive limits - lower:</b>	Not applicable
<b>Flammable/Explosive limits - upper:</b>	Not applicable
<b>Autoignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Polymerises in presence of water.
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	0.84 %; 9.2 g/l

## 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Hazardous reactions:</b>	None under normal processing.
<b>Hazardous decomposition products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde. Irritating organic vapours.
<b>Incompatible materials:</b>	Oxidizing agents. Acids. Bases.
<b>Conditions to avoid:</b>	Exposure to moisture.



## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Dimethyl polysiloxane	No	No	No
Silane derivative	No	No	No
Reactive Silane	No	No	No
Octadecanoic acid	No	No	No
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	No	No	No
Quartz (SiO <sub>2</sub> )	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Limestone	Nuisance dust
Dimethyl polysiloxane	Irritant
Silane derivative	Irritant, Allergen
Reactive Silane	Irritant, Allergen
Octadecanoic acid	Irritant
Stannane, dioctylbis[(1-oxoneodecyl)oxy]-	No Records
Quartz (SiO <sub>2</sub> )	Immune system, Lung, Some evidence of carcinogenicity

## 12. ECOLOGICAL INFORMATION

### Ecological information:

No specific studies have been conducted by Henkel on the ecotoxicity or environmental fate of this material; however, commonly available data on the material indicate that uncontrolled releases to soil, ground water, or surface waters could entail acute and/or chronic ecological effects, depending on the quantity and concentration of such releases. Releases of volatile components to the atmosphere are not believed to entail significant ecological consequences provided such releases are within the exposure levels set forth in this document. Accordingly, all appropriate measures should be taken to avoid uncontrolled releases to the environment, and any spills or other uncontrolled releases which may occur should be contained and cleaned up immediately in accordance with Section 6.

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

### Recommended method of disposal:

Cured rubber can be incinerated or landfilled following EPA and local regulations.

### Hazardous waste number:

Not a RCRA hazardous waste.

## 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



Exceptions:

None

## 15. REGULATORY INFORMATION

### United States Regulatory Information

<b>TSCA 8 (b) Inventory Status:</b>	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
<b>TSCA 12(b) Export Notification:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 302 EHS:</b>	None above reporting de minimus
<b>CERCLA/SARA Section 311/312:</b>	Immediate Health, Delayed Health
<b>CERCLA/SARA 313:</b>	None above reporting de minimus
<b>California Proposition 65:</b>	No California Proposition 65 listed chemicals are known to be present.

### Canada Regulatory Information

<b>CEPA DSL/NDSL Status:</b>	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
<b>WHMIS hazard class:</b>	D.2.B, D.2.A

## 16. OTHER INFORMATION

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

**Prepared by:** Lou Fabrizio, Regulatory Affairs Specialist

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.