Material Safety Data Sheet

Revision Number: 006.1 **Issue date:** 01/13/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 5600 SIL BLK 400ML HRDN
Product type: Silicone Sealant

IDH number: 988452
Item number: 988452_198973
Region: United States

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

Contact information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: translucent
Odor: Slight, Alcoholic

HEALTH: *2
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: 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 (SiO2)	14808-60-7	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	If symptoms develop and persist, get medical attention. Move to fresh air in case of accidental inhalation of vapours or decomposition products.
Skin contact:	If skin irritation persists, call a physician. Wipe off paste with paper towel or cloth. Wash with soap and water.
Eye contact:	In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.
Ingestion:	Get medical attention. Prevent vomiting if possible.

5. FIRE FIGHTING MEASURES

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

Environmental precautions:	Do not allow material to contaminate ground water system.
Clean-up methods:	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

Handling:	Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Storage:	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

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

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: None under normal processing.

Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Formaldehyde. Irritating organic vapours.

Incompatible materials: Oxidizing agents. Acids. Bases.

Conditions to avoid: 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 (SiO2)	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 (SiO2)	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

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
CERCLA/SARA 313:	None above reporting de minimus
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class:	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.

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