



To Our Customers:

The attached Safety Data Sheet (SDS) was prepared by the vendor of the product you purchased through one of our divisions. We used the manufacturer's electronic document directly or scanned a paper copy and generated a file for our automated SDS delivery system.

All statements, technical information, and recommendations contained therein are solely that of the manufacturer of the product. We at Zep Inc. did not verify the accuracy and completeness of the statements and do not warrant or guarantee the information. We provide vendor SDSs in accordance with the requirements of the OSHA Hazard Communication Standard in order to assist our customers in their compliance efforts. We made every effort to deliver all of the information prepared by the manufacturer. We cannot anticipate all conditions under which this information will be used. If you have any questions about the statements on the SDS, please contact the company shown on the document.

Zep Inc. assumes no liability or responsibility for loss or damage resulting from the improper use or handling of this product, from incompatible product combinations, or from the failure to follow instructions, warnings, and advisories in the manufacturer's product label and Safety Data Sheet.

Sincerely,

Compliance Services

Zep Inc.



Revision Number: 003.3

Issue date: 09/12/2014

**1. PRODUCT AND COMPANY IDENTIFICATION**

<b>Product name:</b>	<b>LOCTITE SI 598HB BL known as LOCTITE 598 HB BL</b>	<b>IDH number:</b>	234612
<b>Product type:</b>	Silicone	<b>Item number:</b>	59876
<b>Restriction of Use:</b>	None identified	<b>Region:</b>	United States
<b>Company address:</b>	<b>Contact information:</b>		
Henkel Corporation	Telephone: (860) 571-5100		
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		
	Internet: www.henkelna.com		

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

**WARNING:** CAUSES SKIN IRRITATION.  
MAY CAUSE AN ALLERGIC SKIN REACTION.  
CAUSES SERIOUS EYE IRRITATION.

HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

**PICTOGRAM(S)****Precautionary Statements**

<b>Prevention:</b>	Avoid breathing dust or fumes. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear eye and face protection. Wear protective gloves.
<b>Response:</b>	IF ON SKIN: Wash with plenty of soap and water. 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. Take off contaminated clothing.
<b>Storage:</b>	Not prescribed
<b>Disposal:</b>	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**

IDH number: 234612

Product name: LOCTITE SI 598HB BL known as LOCTITE 598 HB BL  
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Hazardous Component(s)	CAS Number	Percentage*
Limestone	1317-65-3	30 - 60
Siloxanes and Silicones, di-Me	63148-62-9	10 - 30
Amorphous fumed silica	68611-44-9	1 - 5
Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime	2224-33-1	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Reactive Silane	Proprietary	1 - 5
Reactive Silane	Proprietary	1 - 5
Carbon black	1333-86-4	1 - 5
Aluminum	7429-90-5	0.1 - 1
Octadecanoic acid	57-11-4	0.1 - 1
Toluene	108-88-3	0.1 - 1
White mineral oil (petroleum), highly refined	8042-47-5	0.1 - 1
[3-(Trimethoxysilyl)propyl]urea	23843-64-3	0.1 - 1
Butanone oxime	96-29-7	0.1 - 1

\* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

#### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Skin contact:</b>	Wipe off paste with paper towel or cloth. Wash with soap and water. If skin irritation persists, call a physician.
<b>Eye contact:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Symptoms:</b>	See Section 11.

#### 5. FIRE FIGHTING MEASURES

<b>Extinguishing media:</b>	Foam, dry chemical or carbon dioxide.
<b>Special firefighting procedures:</b>	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. Prevent inhalation of fumes and gases.
<b>Unusual fire or explosion hazards:</b>	None
<b>Hazardous combustion products:</b>	Oxides of carbon. Oxides of silicon. Formaldehyde. Irritating organic vapours.

#### 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 product to enter sewer or waterways.
<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. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

## 7. HANDLING AND STORAGE

### Handling:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and cause eye irritation.

### Storage:

Store in a dry area below 90° F. Keep container closed.

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 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
Siloxanes and Silicones, di-Me	None	None	None	None
Amorphous fumed silica	None	None	None	None
Butan-2-one O,O',O''-(vinylsilyldiene)trioxime	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Reactive Silane	None	None	None	None
Reactive Silane	None	None	None	None
Carbon black	3 mg/m3 TWA Inhalable fraction.	3.5 mg/m3 PEL	None	None
Aluminum	1 mg/m3 TWA Respirable fraction.	5 mg/m3 PEL (as Al) Respirable dust. 15 mg/m3 PEL (as Al) Total dust.	None	None
Octadecanoic acid	10 mg/m3 TWA	None	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
White mineral oil (petroleum), highly refined	5 mg/m3 TWA Inhalable fraction.	5 mg/m3 TWA mist 5 mg/m3 PEL Mist.	None	None
[3-(Trimethoxysilyl)propyl]urea	None	None	None	None
Butanone oxime	None	None	10 ppm (36 mg/m3) TWA (Skin sensitizer)	None

### Engineering controls:

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

### 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. Safety showers and eye wash stations should be available.

### Skin protection:

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Black
Odor:	Mild
Odor threshold:	Not available.
pH:	Not applicable
Vapor pressure:	< 5 mm hg (20 °C (68°F))
Boiling point/range:	Not applicable
Melting point/ range:	Not available.
Specific gravity:	1.3 at 20 °C (68°F)
Vapor density:	Heavier than air.
Flash point:	> 93 °C (> 199.4 °F) Tagliabue closed cup
Flammable/Explosive limits - lower:	Not applicable
Flammable/Explosive limits - upper:	Not applicable
Autoignition temperature:	Not available.
Evaporation rate:	Not available.
Solubility in water:	Polymerises in presence of water.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	3.08 %; 38.79 g/l
Viscosity:	Not available.
Decomposition temperature:	Not available.

## 10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Methyl ethyl ketoxime formed during cure. Formaldehyde. Oxides of carbon. Oxides of silicon. Irritating fumes.
Incompatible materials:	Polymerizes on contact with water. Oxidizing agents. Strong acids and strong bases.
Reactivity:	Not available.
Conditions to avoid:	Moisture.

## 11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes
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## Potential Health Effects/Symptoms

### Inhalation:

Inhalation of vapors or mists of the product may be irritating to the respiratory system. 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. The silane is a skin and eye irritant and prolonged contact may cause eye and skin burns. The low concentration makes such overexposure unlikely and minimizes its affect on health and safety.

### Skin contact:

Causes skin irritation. May cause allergic skin reaction.

### Eye contact:

Causes serious eye irritation.

### Ingestion:

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

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Limestone	None	Nuisance dust
Siloxanes and Silicones, di-Me	None	Irritant
Amorphous fumed silica	None	No Target Organs
Butan-2-one O,O',O''-(vinylsilyldiene)trioxime	None	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	None	Nuisance dust
Reactive Silane	None	No Records
Reactive Silane	None	Irritant, Allergen
Carbon black	Oral LD50 (RAT) = > 8,000 mg/kg	Respiratory, Some evidence of carcinogenicity
Aluminum	None	Central nervous system, Irritant, Lung
Octadecanoic acid	Oral LD50 (RAT) = 4.6 g/kg	Irritant
Toluene	Oral LD50 (RAT) = 2.6 g/kg Oral LD50 (RAT) = 5,000 mg/kg Dermal LD50 (RABBIT) = 12,124 mg/kg Inhalation LC50 (RAT, 1 h) = 26700 ppm Inhalation LC50 (RAT, 2 h) = 12200 ppm Inhalation LC50 (RAT, 4 h) = 8000 ppm	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
White mineral oil (petroleum), highly refined	None	Irritant
[3-(Trimethoxysilyl)propyl]urea	None	No Records
Butanone oxime	None	Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of carcinogenicity

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Limestone	No	No	No
Siloxanes and Silicones, di-Me	No	No	No
Amorphous fumed silica	No	No	No
Butan-2-one O,O',O''-(vinylsilyldiene)trioxime	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Reactive Silane	No	No	No
Reactive Silane	No	No	No
Carbon black	No	Group 2B	No
Aluminum	No	No	No
Octadecanoic acid	No	No	No
Toluene	No	No	No
White mineral oil (petroleum), highly refined	No	No	No
[3-(Trimethoxysilyl)propyl]urea	No	No	No
Butanone oxime	No	No	No

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available.

## 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

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  
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 minimis

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

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/NDL 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:** Lou Fabrizio, Regulatory Affairs Specialist

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