

Revision Date: 06/12/2008

Issue date: 06/12/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 5590 400ML PT A
Product type: Elastomeric Rubber
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 1091894_536868 / IDH No. 1091894
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Calcium carbonate 471-34-1	30-60	10 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m ³ TWA (total dust) 5 mg/m ³ TWA (respirable fraction)	None
Silyl Terminated Polyether Proprietary	30-60	None	None	None
Silyl Terminated Polyether Proprietary	10-30	None	None	None
Reactive Silane Proprietary	5-10	None	None	None
Sulfonic Acid Ester Proprietary	1-5	None	None	None
Silica, amorphous (fumed) 7631-86-9	1-5	6 mg/m ³ TWA	10 mg/m ³ TWA	3 mg/m ³ TWA respirable dust
Substituted silane Proprietary	1-5	None	None	None
Carbon black 1333-86-4	1-5	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	None

NOTE: This product reacts with moisture to form methanol.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste
Color: Black
Odor: Characteristic

HMIS:

HEALTH: 1*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN REACTION. MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Item No. : 1091894_536868 / IDH No. 1091894

Product name: LOCTITE 5590 400ML PT A

Inhalation: Inhalation of vapors from uncured sealant may cause respiratory tract irritation.
Skin contact: Prolonged or repeated contact with uncured sealant may cause skin irritation. May cause allergic skin reaction.
Eye contact: Contact with uncured product may irritate the eyes.
Ingestion: May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact: Wash with soap and water. Get medical attention if symptoms develop and persist.
Eye contact: Flush eye(s) immediately with plenty of water. If eye irritation persists, consult a specialist.
Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93°C (200°F)
Autoignition temperature: Not available
Flammable/Explosive limits-lower %: Not applicable
Flammable/Explosive limits-upper %: Not applicable
Extinguishing media: Foam, dry chemical or carbon dioxide.
Special fire fighting procedures: None
Unusual fire or explosion hazards: None
Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Aldehydes. Acrid smoke and fumes. Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.
Clean-up methods: Scrape up as much material as possible. Spilled material will solidify. Store in a closed container until ready for disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage: Keep container closed. For safe storage, store between 15°C (59°F) and 25°C (77°F).
Incompatible products: Strong acids or bases. Oxidizing agents.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Ensure adequate ventilation, especially in confined areas.
Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection: Chemical resistant, impermeable gloves.

Eye/face protection: Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste
Color: Black
Odor: Characteristic
Vapor pressure: Not available
pH: Not applicable
Boiling point/range: Not available
Melting point/range: Not available
Specific gravity: 1.3-1.4
Vapor density: Not available
Evaporation rate: Not available
Solubility in water: Insoluble.
Partition coefficient (n-octanol/water): Not available
VOC content: <4% (estimated)

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Aldehydes. Irritating organic vapors. Toxic fumes.

Incompatibility: Oxidizing agents. Amines.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Extremes of temperature and direct sunlight.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Calcium carbonate 471-34-1	No	No	No
Silyl Terminated Polyether Proprietary	No	No	No
Silyl Terminated Polyether Proprietary	No	No	No
Reactive Silane Proprietary	No	No	No
Sulfonic Acid Ester Proprietary	No	No	No
Silica, amorphous (fumed) 7631-86-9	No	No	No
Substituted silane Proprietary	No	No	No
Carbon black 1333-86-4	No	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Calcium carbonate 471-34-1	Nuisance dust
Silyl Terminated Polyether Proprietary	No data
Silyl Terminated Polyether Proprietary	No data
Reactive Silane Proprietary	Allergen, Irritant
Sulfonic Acid Ester Proprietary	No Target Organs
Silica, amorphous (fumed) 7631-86-9	Nuisance dust
Substituted silane Proprietary	Allergen, Irritant
Carbon black 1333-86-4	Respiratory, 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, groundwater, 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: Dispose of according to Federal, State and local governmental regulations.

EPA 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/MDG):

Proper shipping name: Not regulated
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None known

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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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: Contains one or more components listed on the Non-Domestic Substances list.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 2

Prepared by: Lou Fabrizio, Senior Health & Regulatory Affairs Specialist

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Revision Date: 10/24/2007

Issue date: 04/24/2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 5590 400ML PT B Product type: Elastomeric Rubber Company address: Henkel Corporation 1001 Trout Brook Crossing Rocky Hill, Connecticut 06067	Item No. : 1091895_536861 / IDH No. 1091895 Region: United States Contact Information: Telephone: 860.571.5100 Emergency telephone: 860.571.5100 Internet: www.loctite.com
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2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Silyl Terminated Polyether Proprietary	30-60	None	None	None
Silica, quartz 14808-60-7	10-30	0.025 mg/m ³ TWA respirable fraction	0.1mg/m ³ TWA (respirable)	None
Kaolinite clay 1318-74-7	10-30	None	None	None
Carbon black 1333-86-4	0.1-1	3.5 mg/m ³ TWA	3.5 mg/m ³ TWA	None

NOTE: This product reacts with moisture to form methanol.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state: Paste
Color: Black
Odor: Characteristic

HMS:

HEALTH: 1*
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

CAUTION: PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation:	Inhalation of vapors from uncured sealant may cause respiratory tract irritation.
Skin contact:	Prolonged or repeated contact with uncured sealant may cause skin irritation.
Eye contact:	Contact with uncured product may irritate the eyes.
Ingestion:	May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by exposure: Eye, skin, and respiratory disorders.

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. If symptoms develop and persist, get medical attention.
Skin contact:	Wash with soap and water. Get medical attention if symptoms develop and persist.
Eye contact:	Flush eye(s) immediately with plenty of water. If eye irritation persists, consult a specialist.
Ingestion:	Do not induce vomiting. Keep individual calm. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point:	Greater than 93°C (200°F)
Autoignition temperature:	Not available
Flammable/Explosive limits-lower %:	Not applicable
Flammable/Explosive limits-upper %:	Not applicable
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special fire fighting procedures:	None
Unusual fire or explosion hazards:	None
Hazardous combustion products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Acrid smoke and fumes. Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions:	Prevent product from entering drains or open waters.
Clean-up methods:	Scrape up as much material as possible. Spilled material will solidify. Store in a closed container until ready for disposal. Maintain good ventilation for large spills.

7. HANDLING AND STORAGE

Handling:	Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.
Storage:	Keep container closed. For safe storage, store between 15°C (59°F) and 25°C (77°F).
Incompatible products:	Strong acids or bases. Oxidizing agents.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Ensure adequate ventilation, especially in confined areas.
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).
Skin protection:	Chemical resistant, impermeable gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Paste
Color:	Black
Odor:	Characteristic
Vapor pressure:	Not available
pH:	Not applicable

Item No. : 1091895_536861 / IDH No. 1091895

Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	1.3-1.4
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Insoluble.
Partition coefficient (n-octanol/water):	Not available
VOC content:	<4% (estimated)

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Will not occur.
Hazardous decomposition products:	Oxides of carbon. Oxides of nitrogen. Aldehydes. Irritating organic vapors. Toxic fumes.
Incompatibility:	Oxidizing agents. Amines.
Conditions to avoid:	Heat, flames, sparks and other sources of ignition. Extremes of temperature and direct sunlight.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Silyl Terminated Polyether Proprietary	No	No	No
Silica, quartz 14808-60-7	Known Carcinogen	Group 1	Yes
Kaolinite clay 1318-74-7	No	No	No
Carbon black 1333-86-4	No	Group 2B	Yes

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Silyl Terminated Polyether Proprietary	No data
Silica, quartz 14808-60-7	Some evidence of carcinogenicity, Lung, Immune system
Kaolinite clay 1318-74-7	Respiratory
Carbon black 1333-86-4	Respiratory, 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, groundwater, 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.
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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.

EPA 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
Marine pollutant: None known

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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard, Delayed Health Hazard
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/NDL Status: Contains one or more components listed on the Non-Domestic Substances list.
WHMIS hazard class: D.2.A, D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Lou Fabrizio, Senior Health & Regulatory Affairs Specialist

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