# **Material Safety Data Sheet**





Revision Number: 005.5 Issue date: 12/22/2010

# 1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: LOCTITE® 242™ THREADLOCKER

**MEDIUM STRENGTH** 

Product type:Anaerobic SealantItem number:24221

Region: United States

Company address:Contact information:Henkel CorporationTelephone: 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

TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

135354

Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:
HEALTH: \*2
FLAMMABILITY: 1

 Color:
 Blue
 FLAMMABILITY:
 1

 Odor:
 Mild
 PHYSICAL HAZARD:
 1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Liquid

**Potential Health Effects** 

Physical state:

**Inhalation:** May cause respiratory tract irritation.

**Skin contact:** May cause allergic skin reaction. May cause skin irritation.

**Eye contact:** Contact with eyes will cause irritation. **Ingestion:** Not expected to be harmful by ingestion.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

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	%
Polyglycol dimethacrylate	25852-47-5	60 - 100
Oleic acid 5.5EO	9004-96-0	10 - 30
Saccharin	81-07-2	1 - 5
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Cumene hydroperoxide	80-15-9	1 - 5
Propanediol-1,2	57-55-6	1 - 5
Titanium dioxide	13463-67-7	0.1 - 1

IDH number: 135354 Product name: LOCTITE® 242™ THREADLOCKER MEDIUM STRENGTH
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### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If breathing has

stopped, give artificial respiration. Keep warm and guiet. Get medical

attention.

**Skin contact:** Wash with soap and water. Remove contaminated clothing and footwear.

Wash clothing before reuse. If symptoms develop and persist, get medical

attention.

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. Get medical attention.

**Ingestion:** Do not induce vomiting. Keep individual calm. Get medical attention.

#### 5. FIRE FIGHTING MEASURES

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Flame projection: Not applicable

Autoignition temperature: Not determined

Flammable/Explosive limits - lower: 2.6 % (propylene glycol)

Flammable/Explosive limits - upper: 12.5 % (propylene glycol)

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: None
Unusual fire or explosion hazards: None

IDH number: 135354

Hazardous combustion products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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.

**Environmental precautions:**Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust). Store in a partly filled, closed container until

disposal.

#### 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling.

**Storage:** For safe storage, store at or below 38 °C (100.4 °F)

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 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
Polyglycol dimethacrylate	None	None	None	None
Oleic acid 5.5EO	None	None	None	None
Saccharin	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
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Propanediol-1,2	None	None	10 mg/m3 TWA Aerosol.	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None

Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be

required if concentrations exceed occupational 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.

Skin protection: Use impermeable gloves and protective clothing as necessary to prevent skin

contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:BlueOdor:MildOdor threshold:Not available

Odor threshold: Not available pH: Not applicable

Vapor pressure: < 5 mm hg (27 °C (80.6 °F))

Boiling point/range: > 149 °C (> 300.2 °F)

Melting point/ range: Not available

**Specific gravity:** 1.1 at 23.9 °C (75.02 °F)

Vapor density: Not available

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Flame projection: Not applicable

Flammable/Explosive limits - lower: 2.6 % (propylene glycol) Flammable/Explosive limits - upper: 12.5 % (propylene glycol)

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not determined
Not available
Slight
Not available

**VOC content:** 4.48 %; 49.3 g/l EPA Method 24

### 10. STABILITY AND REACTIVITY

Stability: Stable

IDH number: 135354

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic

vapours.

**Incompatible materials:** Strong oxidizing agents. Free radical initiators. Strong reducing agents.

Alkalis. Oxygen scavengers. Other polymerization initiators. Copper. Iron.

Zinc. Aluminum. Rust.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 10,000 mg/kg

Acute dermal product toxicity: LD50 (rabbit) > 5,000 mg/kg

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Oleic acid 5.5EO	No	No	No
Saccharin	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Cumene hydroperoxide	No	No	No
Propanediol-1,2	No	No	No
Titanium dioxide	No	Group 2B	No

Hazardous components	Health Effects/Target Organs		
Polyglycol dimethacrylate	Irritant, Allergen		
Oleic acid 5.5EO	Irritant		
Saccharin	No Target Organs		
Silica, amorphous, fumed, crystal-free	Nuisance dust		
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen		
Propanediol-1,2	Irritant		
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity		

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

# U.S. Department of Transportation Ground (49 CFR)

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

#### International Air Transportation (ICAO/IATA)

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None

#### Water Transportation (IMO/IMDG)

IDH number: 135354

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

CERCLA/SARA 313: Immediate Health, Delayed Health

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). Cumene hydroperoxide (CAS# 80-15-9).

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**

IDH number: 135354

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.A, D.2.B

#### 16. OTHER INFORMATION

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

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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# **Material Safety Data Sheet**





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**Revision Number: 006.0** Issue date: 01/26/2011

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® 518™ GASKET

**ELIMINATOR ® FLANGE SEALANT** 

Product type: Anaerobic Adhesive

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

IDH number: 135481

Item number: 51831 **United States** Region:

Contact information:

Telephone: 860.571.5100

MEDICAL EMERGENCY Phone: Poison Control Center 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

**HEALTH:** 

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS: Physical state: Gel Red Mild

FLAMMABILITY: 1 PHYSICAL HAZARD:

**Personal Protection:** See MSDS Section 8

WARNING: CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Lungs, Eyes

**Potential Health Effects** 

Inhalation: May cause irritation to nose and throat.

Skin contact: May cause allergic skin reaction. Causes skin irritation. Eye contact: Vapors may irritate eyes. Contact with eyes will cause irritation.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by

exposure:

Color:

Odor:

Eye, skin, and respiratory disorders. Acrylic acid: Respiratory disorders. Lung disease.

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	%
Polyurethane methacrylate resin	Proprietary	60 - 100
Polyglycol dimethacrylate	25852-47-5	5 - 10
Silica, amorphous, fumed, crystal-free	112945-52-5	5 - 10
Acrylic acid	79-10-7	1 - 5
Cumene hydroperoxide	80-15-9	1 - 5
Ethylene glycol	107-21-1	1 - 5
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1

Product name: LOCTITE® 518™ GASKET ELIMINATOR ® FLANGE SEALANT IDH number: 135481

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### 4. FIRST AID MEASURES

Inhalation: If symptoms develop and persist, get medical attention. Move to fresh air.

Skin contact: Wash with soap and water. Remove contaminated clothing and footwear.

Wash clothing before reuse. If symptoms develop and persist, get medical

attention

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. Get medical attention.

Ingestion: Keep individual calm. Do not induce vomiting. Get medical attention.

### 5. FIRE FIGHTING MEASURES

Flash point: > 100.00 °C (> 212°F) None

Autoignition temperature: Not available

Flammable/Explosive limits - lower: 2 % (Acrylic Acid) Flammable/Explosive limits - upper: 8 % (Acrylic Acid)

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 135481

Hazardous combustion products: Irritating organic vapours. Oxides of nitrogen. Oxides of sulfur. Oxides of

## 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 product to enter sewer or waterways.

Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand, Clean-up methods:

silica gel, acid binder, universal binder, sawdust). Store in a partly filled,

closed container until disposal.

## 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling.

For safe storage, store at or below 38 °C (100.4 °F) Storage:

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 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
Polyurethane methacrylate resin	None	None	None	None
Polyglycol dimethacrylate	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
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None	None
1-Acetyl-2-phenylhydrazine	None	None	None	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.

**Skin protection:**Use impermeable gloves and protective clothing as necessary to prevent skin

contact. Neoprene gloves. Butyl rubber gloves. Natural rubber gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:GelColor:RedOdor:MildOdor threshold:Not availablepH:Not applicable

 Vapor pressure:
 < 10 mm hg (80 °F (26.7 °C))</td>

 Boiling point/range:
 > 300 °F (> 148.9 °C) None

Melting point/ range: Not available

**Specific gravity:** 1.1 at 26.60 °C (79.88 °F)

Vapor density: Not available

Flash point: > 100.00 °C (> 212°F) None

Flammable/Explosive limits - lower:

Plammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

2 % (Acrylic Acid)

8 % (Acrylic Acid)

Not available

Not available

Slight

Not available

**VOC content:** < 4 %; 19.44 g/l (calculated)

### 10. STABILITY AND REACTIVITY

Stability: Stable

IDH number: 135481

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Phenolics.

Oxides of carbon.

Incompatible materials: Iron. Acids and bases. Rust. Reducing agents. Aluminum. Strong oxidizing

agents. Free radical initiators. Aldehydes. Oxygen scavengers. Strong alkalis.

Zinc. copper

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyurethane methacrylate resin	No	No	No
Polyglycol dimethacrylate	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Acrylic acid	No	No	No
Cumene hydroperoxide	No	No	No
Ethylene glycol	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No

Hazardous components	Health Effects/Target Organs
Polyurethane methacrylate resin	Irritant, Allergen
Polyglycol dimethacrylate	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	Nuisance dust
Acrylic acid	Allergen, Corrosive, Irritant, Kidney, Liver
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
Ethylene glycol	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic
1-Acetyl-2-phenylhydrazine	Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

#### 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:
Hazard class or division:
Identification number:
Packing group:
Not regulated
None
None

IDH number: 135481 Product name: LOCTITE® 518™ GASKET ELIMINATOR ® FLANGE SEALANT

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### 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: Delayed Health, Immediate Health

CERCLA/SARA Section 311/312: Delayed Health, Immediate Health
CERCLA/SARA 313: This product contains the following

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). Acrylic acid (CAS# 79-10-7). Cumene hydroperoxide (CAS# 80-15-9). Ethylene

glycol (CAS# 107-21-1).

**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**

WHMIS hazard class:

IDH number: 135481

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. D.2.A, D.2.B

### 16. OTHER INFORMATION

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

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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.

# **Material Safety Data Sheet**





Revision Number: 005.1 Issue date: 09/29/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 587 Blue High Performance IDH number:

RTV Silicone Gasket Maker

**Product type:** Silicone Sealant **Item number:** 58730

Region: United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS

 Physical state:
 Paste
 HEALTH:
 \*2

 Color:
 Blue
 FLAMMABILITY:
 1

 Odor:
 Mild, Petroleum
 PHYSICAL HAZARD:
 0

Personal Protection: See MSDS Section 8

135504

WARNING: PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY

CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

PROLONGED OR REPEATED CONTACT WITH UNCURED SEALANT MAY

CAUSE BURNS TO SKIN AND EYES.

REPEATED OR PROLONGED CONTACT MAY CAUSE ALLERGIC SKIN

REACTION.

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects

Inhalation: 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. 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: Prolonged or repeated skin contact may cause skin irritation or allergic skin sensitization

reaction. Possible burns to skin.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.

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

Existing conditions aggravated by

exposure:

IDH number: 135504

Skin disorders.

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	%
Siloxanes and Silicones, di-Me, hydroxy-terminated	70131-67-8	30 - 60
Limestone	1317-65-3	30 - 60
Butan-2-one O,O',O"-(vinylsilylidyne)trioxime	2224-33-1	1 - 5
Aluminum	7429-90-5	0.1 - 1
3-(Trimethoxysilyl)propylamine	13822-56-5	0.1 - 1
White mineral oil (petroleum), highly refined	8042-47-5	0.1 - 1
Butanone oxime	96-29-7	0.1 - 1
Quartz (SiO2)	14808-60-7	0.1 - 1

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wipe off paste with paper towel or cloth. Wash with soap and water. If skin

irritation persists, call a physician.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. If eye irritation persists, consult a specialist.

**Ingestion:** Do not induce vomiting. If symptoms develop and persist, get medical

attention.

# 5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available

Flammable/Explosive limits - upper:

Not available

**Extinguishing media:** Dry chemical. Foam. Carbon dioxide.

Special firefighting procedures: None
Unusual fire or explosion hazards: None

IDH number: 135504

**Hazardous combustion products:** Oxides of carbon. Oxides of silicon. Formaldehyde.

### 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 product to enter sewer or waterways.

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. Do not handle contact lenses until all sealant has been removed from hands. Residual sealant may transfer to lenses and

cause eye irritation.

**Storage:** For safe storage, store at or below 32 °C (89.6 °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 components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Siloxanes and Silicones, di-Me, hydroxy-terminated	None	None	None	None
Limestone	10 mg/m3 TWA Total dust.	5 mg/m3 TWA Respirable fraction. 15 mg/m3 TWA Total dust.	None	None
Butan-2-one O,O',O"-(vinylsilylidyne)trioxime	None	None	None	None
Aluminum	1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA (as Al) Total dust. 5 mg/m3 TWA (as Al) Respirable dust.	None	None
3-(Trimethoxysilyl)propylamine	None	None	None	None
White mineral oil (petroleum), highly refined	5 mg/m3 TWA Mist. 10 mg/m3 STEL Mist.	5 mg/m3 TWA mist	None	None
Butanone oxime	None	None	10 ppm (36 mg/m3) TWA (Skin sensitizer)	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: Provide adequate local exhaust ventilation to maintain worker exposure below

exposure limits.

Respiratory protection: Use a NIOSH approved air-purifying respirator if the potential to exceed

established exposure limits exists. Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

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

glasses with side shields.

Skin protection: Chemical resistant, impermeable gloves. Impervious clothing. Chemical

resistant, impermeable gloves. Impervious clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Blue

Odor: Mild, Petroleum
Odor threshold: Not available
pH: Not applicable
Vapor pressure: < 5 mm hg (20 °

Vapor pressure:< 5 mm hg (20 °C (68°F))</td>Boiling point/range:Not availableMelting point/ range:Not availableSpecific gravity:1.31 at 20 °C (68°F)Vapor density:Not available

Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: Not available Flammable/Explosive limits - upper: Not available

Autoignition temperature:Not availableEvaporation rate:Not available

**Solubility in water:** Polymerises in presence of water.

Partition coefficient (n-octanol/water): Not available VOC content: 3.33 %; 43.09 g/l

## 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of silicon. Formaldehyde Methyl ethyl ketoxime

formed during cure.

Incompatible materials: Acids. Bases. Oxidizing agents. Polymerizes on contact with water.

Conditions to avoid: Moisture.

## 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Siloxanes and Silicones, di-Me, hydroxy- terminated	No	No	No
Limestone	No	No	No
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime	No	No	No
Aluminum	No	No	No
3-(Trimethoxysilyl)propylamine	No	No	No
White mineral oil (petroleum), highly refined	No	No	No
Butanone oxime	No	No	No
Quartz (SiO2)	Known carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Siloxanes and Silicones, di-Me, hydroxy-terminated	No Target Organs
Limestone	Nuisance dust
Butan-2-one O,O',O"-(vinylsilylidyne)trioxime	Irritant, Allergen
Aluminum	Central nervous system, Irritant, Lung
3-(Trimethoxysilyl)propylamine	Irritant, Allergen
White mineral oil (petroleum), highly refined	Irritant
Butanone oxime	Allergen, Blood, Central nervous system, Eyes, Irritant, Some evidence of
Butanone oxime	carcinogenicity
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity

## 12. ECOLOGICAL INFORMATION

**Ecological information:** 

IDH number: 135504

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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
Immediate Health, Delayed Health
None above reporting de minimus

California Proposition 65: No California Proposition 65 listed chemicals are known to be present.

**Canada Regulatory Information** 

IDH number: 135504

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.A, D.2.B

### 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

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IDH number: 135504

# **Material Safety Data Sheet**





Revision Number: 003.1 Issue date: 12/10/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:LOCTITE® 7649™ PRIMERIDH number:209715Product type:AcceleratorItem number:21348Region:United States

Company address: Contact information:
Henkel Corporation Telephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:

Physical state:LiquidHEALTH:\*2Color:GreenFLAMMABILITY:3Odor:AcetonePHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

FLAMMABLE LIQUID AND VAPOR.

Relevant routes of exposure: Inhalation, Skin, Eye contact, Ingestion

**Potential Health Effects** 

Inhalation: Vapors and mists will irritate nose and throat and possibly eyes. May cause respiratory tract

irritation. Excessive inhalation of this material causes headache, dizziness, nausea and

incoordination. Harmful by inhalation.

**Skin contact:** May cause skin irritation. Solvent action can dry and defat the skin, causing the skin to crack,

leading to dermatitis.

**Eye contact:** Vapors may irritate eyes. Contact with eyes will cause irritation.

**Ingestion:** Harmful if swallowed.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

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	%
Acetone	67-64-1	60 - 100
Isobutane	75-28-5	10 - 30
2-Ethylhexanoic acid	149-57-5	0.1 - 1

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Wash with soap and water. If symptoms develop and persist, get medical

attention.

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. Get medical attention.

Ingestion: If conscious, drink plenty of water. Do not induce vomiting. Keep individual

calm. Get medical attention.

### 5. FIRE FIGHTING MEASURES

Flash point: -20 °C (-4°F) Estimated

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: Vapors may accumulate in low or confined areas, travel considerable distance

to source of ignition, and flash back.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. 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.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Remove all sources of ignition. Ensure adequate ventilation. Soak up with

inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Store in a partly filled, closed container until disposal.

### 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. During use and until all vapors are gone: Keep area ventilated - do not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources

of ignition.

Storage: For safe storage, store at or below 49 °C (120.2 °F)

Store away from heat, sparks, flames, or other sources of ignition.

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
Acetone	500 ppm TWA 750 ppm STEL	1,000 ppm (2,400 mg/m3) TWA	None	None
Isobutane	1,000 ppm TWA	None	None	None
2-Ethylhexanoic acid	5 mg/m3 TWA Inhalable fraction and vapor.	None	None	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

imit(s).

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

Skin protection: Neoprene, Butyl-rubber, or nitrile-rubber gloves. Chemical resistant,

impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:GreenOdor:AcetoneOdor threshold:Not availablepH:Not available

Vapor pressure: 172 mm hg (68 °F (20°C))

Boiling point/range: 133 °F (56.1 °C)
Melting point/ range: Not available
Specific gravity: 0.7936
Vapor density: 2.0

Flash point: -20 °C (-4°F) Estimated

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

Not available

Not available

**VOC content:** 1.48 %; 11.7 g/l EPA Method 24

# 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Irritating organic vapours.

**Incompatible materials:** Strong oxidizing agents. Acids.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

### 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Acetone	No	No	No
Isobutane	No	No	No
2-Ethylhexanoic acid	No	No	No

Hazardous components	Health Effects/Target Organs
Acetone	Blood, Central nervous system, Irritant, Reproductive
Isobutane	Cardiac, Central nervous system, Lung
2-Ethylhexanoic acid	Developmental, Eyes, Irritant, Liver, Reproductive

## 12. ECOLOGICAL INFORMATION

Ecological information: Not available

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: D001: Ignitable.

### 14. TRANSPORT INFORMATION

**U.S. Department of Transportation Ground (49 CFR)** 

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Aerosols
2.1
UN 1950
None

**Exceptions:** Consumer Commodity, (Not more than 1 L), ORM-D

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable

Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Exceptions: (Not more than 30 kg), ID8000, May Qualify as Consumer Commodity

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

**Exceptions:** Limited quantity (Not more than 1 L).

### 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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimus
Delayed Health, Fire, Immediate Health
None above reporting de minimus

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: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

WHMIS hazard class: A, B.5, D.2.A, D.2.B

### 16. OTHER INFORMATION

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

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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# **Material Safety Data Sheet**





Revision Number: 002.2 Issue date: 04/17/2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Loctite(R) 660 Quick Metal(R) Press Fit IDH number: 209765

Repair Retaining Compound

Product type: Anaerobic Adhesive Item number: 66010
Region: United States

Company address: Contact information:
Henkel Corporation Telephone: 860.571.5100

1001 Trout Brook Crossing Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:PasteHEALTH:\*2Color:SilverFLAMMABILITY:1Odor:MildPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE AND SKIN IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

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

**Potential Health Effects** 

**Inhalation:** May cause respiratory tract irritation.

**Skin contact:** Causes skin irritation. May cause allergic skin reaction.

**Eye contact:** Contact with eyes will cause irritation.

**Ingestion:** May be harmful if swallowed.

Existing conditions aggravated by

exposure:

IDH number: 209765

Eye, skin, and respiratory disorders.

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	%
2-Propenoic acid, 2-methyl-, (1-methylethylidene)	24448-20-2	30 - 60
Hydroxyalkyl methacrylate	27813-02-1	30 - 60
Bisphenol A fumarate resin	39382-25-7	5 - 10
Silica, amorphous, fumed, crystal-free	112945-52-5	5 - 10
Cumene hydroperoxide	80-15-9	1 - 5
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1
Titanium dioxide	13463-67-7	0.1 - 1

## 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms develop and persist, get medical attention.

Product name: Loctite(R) 660 Quick Metal(R) Press Fit Repair Retaining Compound
Page 1 of 5

Skin contact: Wash with soap and water. Wash clothing before reuse. Remove

contaminated clothing and footwear. If symptoms develop and persist, get

medical attention.

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. Get medical attention.

**Ingestion:** Do not induce vomiting. Keep individual calm. Get medical attention.

## 5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 209765

Hazardous combustion products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. 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.

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand,

silica gel, acid binder, universal binder, sawdust). Store in a partly filled,

closed container until disposal.

## 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Use only with adequate ventilation.

Storage: For safe storage, store at or below 38 °C (100.4 °F)

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 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
2-Propenoic acid, 2-methyl-, (1-methylethylidene)	None	None	None	None
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
Bisphenol A fumarate resin	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 6 mg/m3 TWA	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
1-Acetyl-2-phenylhydrazine	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None

**Engineering controls:** Local exhaust ventilation is recommended when general ventilation is not

sufficient to control airborne contamination below occupational exposure

Respiratory protection: Use an organic vapor respirator for concentrations exceeding the

Occupational Exposure Limit.

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. Butyl rubber gloves. Neoprene gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Silver Mild Odor: Odor threshold: Not available Not applicable pH:

< 5 mm hg (27 °C (80.6 °F)) > 149 °C (> 300.2 °F) Vapor pressure: Boiling point/range:

Melting point/ range: Not available 1.1

Specific gravity: Vapor density:

Not available

> 93 °C (> 199.4 °F) Tagliabue closed cup Flash point:

Flammable/Explosive limits - lower: Not available Flammable/Explosive limits - upper: Not available Autoignition temperature: Not available Evaporation rate: Not available Solubility in water: Slight Solubility in water: Not miscible Partition coefficient (n-octanol/water): Not available **VOC** content: 3.02 %; 30.15 g/l

### STABILITY AND REACTIVITY

Stability: Stable

IDH number: 209765

Hazardous reactions: Will not occur.

Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic Hazardous decomposition products:

vapours.

Incompatible materials: Strong oxidizing agents.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
2-Propenoic acid, 2-methyl-, (1-methylethylidene)	No	No	No
Hydroxyalkyl methacrylate	No	No	No
Bisphenol A fumarate resin	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Cumene hydroperoxide	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No
Titanium dioxide	No	Group 2B	No

Hazardous components	Health Effects/Target Organs
2-Propenoic acid, 2-methyl-, (1-methylethylidene)	Irritant, Allergen
Hydroxyalkyl methacrylate	Irritant, Allergen
Bisphenol A fumarate resin	Irritant, Allergen
Silica, amorphous, fumed, crystal-free	Nuisance dust
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
1-Acetyl-2-phenylhydrazine	Allergen, Blood, Kidney, Mutagen, Some evidence of carcinogenicity
Titanium dioxide	Irritant, Respiratory

### 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

#### 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)

IDH number: 209765

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

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). Cumene hydroperoxide (CAS# 80-15-9).

CERCLA Reportable quantity: Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

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**

WHMIS hazard class:

IDH number: 209765

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. D.2.A, D.2.B

### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 3

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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# **Material Safety Data Sheet**





**Revision Number: 007.0** Issue date: 01/04/2011

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® 262™ THREADLOCKER IDH number:

**HIGH STRENGTH** 

Product type: Anaerobic Sealant Item number: 26221 **United States** Region:

**Contact information:** Company address:

Telephone: 860.571.5100 Henkel Corporation

MEDICAL EMERGENCY Phone: Poison Control Center One Henkel Way 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

231926

Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS: Physical state: Liquid **HEALTH:** \*2 FLAMMABILITY: Red 1

PHYSICAL HAZARD: Odor: Mild **Personal Protection:** See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY CAUSE SKIN IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes, Respiratory system

**Potential Health Effects** 

Inhalation: May cause respiratory tract irritation.

Skin contact: May cause allergic skin reaction. May cause skin irritation with discomfort or rash.

Eye contact: Contact with eyes will cause irritation.

Ingestion: May be harmful if swallowed.

Existing conditions aggravated by

exposure:

IDH number: 231926

Color:

Eye, skin, and respiratory disorders.

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	%
Polyglycol dimethacrylate	25852-47-5	60 - 100
Bisphenol A fumarate resin	39382-25-7	10 - 30
Saccharin	81-07-2	1 - 5
Cumene hydroperoxide	80-15-9	1 - 5
N,N-Diethyl-p-toluidine	613-48-9	1 - 5

Product name: LOCTITE® 262™ THREADLOCKER HIGH STRENGTH

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### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms develop and persist, get medical attention.

Skin contact: Wash with soap and water. Remove contaminated clothing and footwear.

Wash clothing before reuse. If symptoms develop and persist, get medical

attention.

Eye contact: Flush with copious amounts of water, preferably, lukewarm water for at least

15 minutes, holding eyelids open all the time. Get medical attention.

Ingestion: Do not induce vomiting. Keep individual calm. Get medical attention.

### 5. FIRE FIGHTING MEASURES

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available
Flammable/Explosive limits - upper:

Not available

**Extinguishing media:** If product is involved in fire extinguish with dry powder, foam or carbon

dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 231926

Hazardous combustion products: Thermal decomposition can lead to release of irritating gases and vapors.

Oxides of carbon. Oxides of nitrogen.

### 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 product to enter sewer or waterways. Do not allow product to

enter sewer or waterways.

Clean-up methods: Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand,

silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal. Ensure adequate ventilation. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed

container for disposal.

# 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of

this product. Wash thoroughly after handling.

Storage: For safe storage, store at or below 38 °C (100.4 °F)

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 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
Polyglycol dimethacrylate	None	None	None	None
Bisphenol A fumarate resin	None	None	None	None
Saccharin	None	None	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA None (SKIN)	
N,N-Diethyl-p-toluidine	None	None	None	None

Engineering controls: No specific ventilation requirements noted, but forced ventilation may still be

required if concentrations exceed occupational exposure limits.

Respiratory protection: Use a NIOSH approved supplied air respirator with an organic cartridge if the

potential to exceed established exposure limits exists.

**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. Natural rubber gloves. Neoprene gloves. Butyl rubber gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:RedOdor:MildOdor threshold:Not avai

Odor threshold: Not available pH: Not applicable

Vapor pressure: $< 5 \text{ mm hg} (27 \, ^{\circ}\text{C} (80.6 \, ^{\circ}\text{F}))$ Boiling point/range: $> 149 \, ^{\circ}\text{C} (> 300.2 \, ^{\circ}\text{F})$ 

Melting point/ range:
Specific gravity:

Not available
1.05

Vapor density: Not available

Flash point: > 93.3 °C (> 199.94 °F) Tagliabue closed cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

Not available
Slight
Not available
0 %; 0 g/l

### 10. STABILITY AND REACTIVITY

Stability: Stable

IDH number: 231926

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Phenolics. Irritating

organic vapours.

Incompatible materials: Iron. Copper. Rust. Aluminum. Zinc. Reducing agents. Strong acids and

oxidizing agents. Oxygen scavengers. Strong alkalis.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

# 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 10,000 mg/kg

Product name: LOCTITE® 262™ THREADLOCKER HIGH STRENGTH

Page 3 of 5

Acute dermal product toxicity: LD50 (rabbit) > 5,000 mg/kg

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Bisphenol A fumarate resin	No	No	No
Saccharin	No	No	No
Cumene hydroperoxide	No	No	No
N,N-Diethyl-p-toluidine	No	No	No

Hazardous components	Health Effects/Target Organs
Polyglycol dimethacrylate	Irritant, Allergen
Bisphenol A fumarate resin	No Target Organs
Saccharin	No Target Organs
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
N,N-Diethyl-p-toluidine	No Target Organs

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

### U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:None

### International Air Transportation (ICAO/IATA)

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

### Water Transportation (IMO/IMDG)

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

## 15. REGULATORY INFORMATION

### **United States Regulatory Information**

IDH number: 231926

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: 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). Cumene hydroperoxide (CAS# 80-15-9).

CERCLA Reportable quantity: Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

Saccharin (CAS# 81-07-2) 100 lbs. (45.4 kg)

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

**Canada Regulatory Information** 

IDH number: 231926

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

### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format. 2, 8, 11

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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# **Material Safety Data Sheet**





**Revision Number: 004.2** Issue date: 05/07/2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 454 Prism® Surface Insensitive Instant IDH number: 233998

**Adhesive Gel** Product type: Cyanoacrylate Item number: 45404

United States Region:

Company address: Contact information: Telephone: 860.571.5100 Henkel Corporation Emergency telephone: 860.571.5100 1001 Trout Brook Crossing

Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS Gel Physical state: HEALTH: 2 Color: Clear FLAMMABILITY: 2

Odor: Irritating PHYSICAL HAZARD: **Personal Protection:** See MSDS Section 8

WARNING: BONDS SKIN IN SECONDS.

MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION.

COMBUSTIBLE LIQUID AND VAPOR.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

Inhalation: Exposure to vapors above the established exposure limit results in respiratory irritation, which

may lead to difficulty in breathing and tightness in the chest.

Skin contact: Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause

allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the

skin. Cured adhesive does not present a health hazard even if bonded to the skin.

Eye contact: Irritating to eyes. Causes excessive tearing. Eyelids may bond.

Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It Ingestion:

is almost impossible to swallow.

Existing conditions aggravated by

exposure:

IDH number: 233998

Eye, skin, and respiratory disorders.

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	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Treated fumed silica	67762-90-7	5 - 10

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

> Product name: 454 Prism® Surface Insensitive Instant Adhesive Gel Page 1 of 5

Skin contact: Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart

using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or

roll lips apart. Do not pull lips apart with direct opposing force.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Get medical

attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized

cyanoacrylate trapped behind the eyelid caused abrasive damage.

**Ingestion:** Ensure breathing passages are not obstructed. The product will polymerize

rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from

swallowing any separated mass.

Notes to physician: Surgery is not necessary to separate accidentally bonded tissues. Experience

has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

symptomatically after adhesive is removed.

#### 5. FIRE FIGHTING MEASURES

Flash point: 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup

Autoignition temperature: 485 °C (905°F)

Flammable/Explosive limits - lower: Not determined

Flammable/Explosive limits - upper: Not determined

**Extinguishing media:** Foam. Carbon dioxide. Dry powder.

Special firefighting procedures: Wear a self-contained breathing apparatus with a full face piece operated in

pressure-demand or other positive pressure mode.

Unusual fire or explosion hazards: None

Hazardous combustion products: Trace amounts of toxic and/or irritating fumes may be released and the use of

breathing apparatus is recommended.

## 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:** Ventilate area. Do not allow product to enter sewer or waterways.

Clean-up methods: Do not use cloths for mopping up. Flood with water to complete polymerization

and scrape off the floor. Cured material can be disposed of as non-hazardous

waste.

# 7. HANDLING AND STORAGE

**Handling:** Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns.

Storage:

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 contact Henkel Customer Service at (800) 243-4874.

### **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
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None

**Engineering controls:** Use positive down-draft exhaust ventilation if general ventilation is insufficient

to maintain vapor concentration below established 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.

Skin protection: Use nitrile gloves and aprons as necessary to prevent contact. Do not use

PVC, nylon or cotton.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Gel Clear Color: Odor: Irritating Odor threshold: 1 - 2 ppm pH: Not applicable Vapor pressure:

< 0.2 mm hg > 300 °F (> 148.9 °C) none Boiling point/range:

Not determined Melting point/ range:

Specific gravity: 1.05

Vapor density: 3 Approximately

Flash point: 80 - 93.4 °C (176°F - 200.12 °F) Tagliabue closed cup

Flammable/Explosive limits - lower: Not determined Flammable/Explosive limits - upper: Not determined 485 °C (905°F) Autoignition temperature: Evaporation rate: Not available Solubility in water: Miscible

Polymerises in presence of water. Solubility in water:

Partition coefficient (n-octanol/water): Not applicable

**VOC** content: < 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

### 10. STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Hazardous reactions: Rapid exothermic polymerization will occur in the presence of water, amines,

alkalis and alcohols.

Hazardous decomposition products:

IDH number: 233998

Water, amines, alkalis and alcohols. Incompatible materials:

Conditions to avoid: Spontaneous polymerization.

## 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Ethyl 2-cyanoacrylate	No	No	No
Treated fumed silica	No	No	No

Hazardous components	Health Effects/Target Organs
Ethyl 2-cyanoacrylate	Irritant, Allergen, Respiratory
Treated fumed silica	Irritant

### 12. ECOLOGICAL INFORMATION

Ecological information: Not known.

### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

**Proper shipping name:** Combustible liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: Combustible Liquid

Identification number: NA 1993
Packing group: III

Exceptions: Unrestricted, (Not more than 450 Liters)

International Air Transportation (ICAO/IATA)

Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)

Hazard class or division: 9
Identification number: UN 3334
Packing group: None

Packing group: None
Exceptions: Primary packs containing less than 500ml are unregulated by this mode of

transport and may be shipped unrestricted.

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**

IDH number: 233998

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, Reactive

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** 

IDH number: 233998

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

WHMIS hazard class: B.3, D.2.B

### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format 3

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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# **Material Safety Data Sheet**





Revision Number: 005.1 Issue date: 10/12/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE® 565™ PST® PIPE SEALANT IDH number: 88551

**h PTFE THREAD SEALANT** 

**Product type:** Anaerobic Sealant **Item number:** 56531

Region: United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way Emergency telephone: 860.571.5100 Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

#### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:PasteHEALTH:\*2Color:WhiteFLAMMABILITY:1Odor:MildPHYSICAL HAZARD:1

Personal Protection: See MSDS Section 8

WARNING: CAUSES EYE IRRITATION.

MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE SKIN IRRITATION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

**Inhalation:** May cause respiratory tract irritation.

**Skin contact:** May cause allergic skin reaction. May cause skin irritation.

**Eye contact:** Contact with eyes will cause irritation. **Ingestion:** Not expected to be harmful by ingestion.

Existing conditions aggravated by

exposure:

IDH number: 88551

Eye, skin, and respiratory disorders.

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	%
Polyglycol dimethacrylate	25852-47-5	30 - 60
Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate	68186-73-2	10 - 30
Cellulose ester	9004-36-8	10 - 30
Titanium dioxide	13463-67-7	1 - 5
Treated fumed silica	67762-90-7	1 - 5
Saccharin	81-07-2	1 - 5
Cumene hydroperoxide	80-15-9	1 - 5
Ethylene glycol	107-21-1	0.1 - 1

### 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: Remove contaminated clothing and footwear. Wash clothing before reuse.

Wash with soap and water. If symptoms develop and persist, get medical

attention.

**Eye contact:** Get medical attention. Flush with copious amounts of water, preferably,

lukewarm water for at least 15 minutes, holding eyelids open all the time.

**Ingestion:** Keep individual calm. Do not induce vomiting. Get medical attention.

#### 5. FIRE FIGHTING MEASURES

Flash point: > 93.3 °C (> 199.94 °F)

Autoignition temperature: Not available

Flammable/Explosive limits - lower: Not available

Flammable/Explosive limits - upper: Not available

**Extinguishing media:** Foam, dry chemical or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear.

Unusual fire or explosion hazards: None

IDH number: 88551

Hazardous combustion products: Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Toxic fluorine

compounds. 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

**Environmental precautions:** Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder, sawdust). Store in a partly filled, closed container until

disposal.

## 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Storage: For safe storage, store at or below 38 °C (100.4 °F)

Keep in a cool, well ventilated area.

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
Polyglycol dimethacrylate	None	None	None	None
Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate	None	None	None	None
Cellulose ester	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Saccharin	None	None	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA None (SKIN)	
Ethylene glycol	100 mg/m3 Ceiling Aerosol.	None	None None	

**Engineering controls:** No specific ventilation requirements noted, but forced ventilation may still be

required if concentrations exceed occupational exposure limits.

Respiratory protection: Use a NIOSH approved supplied air respirator with an organic cartridge if the

potential to exceed established exposure limits exists.

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. Neoprene, Butyl-rubber, or nitrile-rubber gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: White Odor: Mild Not available Odor threshold: pH: Not applicable

< 5 mm hg (27 °C (80.6 °F)) Vapor pressure: Boiling point/range: > 149 °C (> 300.2 °F)

Melting point/ range: Not available

Specific gravity: 1.1

Vapor density: Not available

> 93.3 °C (> 199.94 °F) Flash point: Flammable/Explosive limits - lower: Not available

Flammable/Explosive limits - upper: Not available Autoignition temperature: Not available **Evaporation rate:** Not available Solubility in water: Slight Partition coefficient (n-octanol/water): Not available VOC content: 0.11 %; 1.06 g/l

# 10. STABILITY AND REACTIVITY

Stability: Stable

IDH number: 88551

Hazardous reactions: Will not occur.

Hazardous decomposition products: Oxides of carbon. Toxic fluorine compounds. Oxides of nitrogen. Oxides of

sulfur. Irritating organic vapours.

Incompatible materials: Strong oxidizing agents.

Conditions to avoid: See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

## 11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity: LD50 (rat) > 5,000 mg/kg (Estimated)

Acute dermal product toxicity: LD50 (rabbit) > 2,000 mg/kg (Estimated)

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Hexanedioic acid, polymer with 1,4- butanediol and 1,2-propanediol, dodecanoate	No	No	No
Cellulose ester	No	No	No
Titanium dioxide	No	Group 2B	No
Treated fumed silica	No	No	No
Saccharin	No	No	No
Cumene hydroperoxide	No	No	No
Ethylene glycol	No	No	No

Hazardous components	Health Effects/Target Organs		
Polyglycol dimethacrylate	Irritant, Allergen		
Hexanedioic acid, polymer with 1,4-butanediol and 1,2-propanediol, dodecanoate	No Records		
Cellulose ester	No Target Organs		
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity		
Treated fumed silica	Irritant		
Saccharin	No Target Organs		
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen		
Ethylene glycol	Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irri Kidney, Liver, Metabolic		

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

## 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

## 14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

#### 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)

IDH number: 88551

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

Water Transportation (IMO/IMDG)

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

### **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:

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). Cumene hydroperoxide (CAS# 80-15-9). **CERCLA Reportable quantity:** Saccharin (CAS# 81-07-2) 100 lbs. (45.4 kg)

Cumene hydroperoxide (CAS# 80-15-9) 10 lbs. (4.54 kg)

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

WHMIS hazard class:

IDH number: 88551

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. D.2.A. D.2.B

### 16. OTHER INFORMATION

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

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