



Revision Number: 002.1 Issue date: 12/17/2012

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE 648 RETAIN CMPND 250ML

Product type: Anaerobic Sealant

Company address: Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

 IDH number:
 1835918

 Item number:
 1835918

 Region:
 United States

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

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

 Physical state:
 Liquid
 HEALTH:
 \*2

 Color:
 Green
 FLAMMABILITY:
 1

 Odor:
 Characteristic
 PHYSICAL HAZARD:
 1

 Personal Protection:
 See MSDS Section 8

Personal Protection: WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Relevant routes of exposure: Lungs, Skin, Eyes

**Potential Health Effects** 

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

Skin contact: May cause allergic skin reaction. May cause skin irritation. This product may be harmful if it is

absorbed through the skin.

**Eye contact:** May cause irritation.

**Ingestion:** May be 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	%	
Dimethacrylate ester	Proprietary	30 - 60	
Methacrylate monomer	Proprietary	10 - 30	
2-Hydroxyethyl methacrylate	868-77-9	10 - 30	
Fumarate resin	Proprietary	10 - 30	
Polyurethane methacrylate resin	Proprietary	5 - 10	
Acrylic acid	79-10-7	1 - 5	
Hydroxyalkyl methacrylate	27813-02-1	1 - 5	
1-Acetyl-2-phenylhydrazine	114-83-0	0.1 - 1	

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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)

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: None
Unusual fire or explosion hazards: None

Hazardous combustion products: Oxides of nitrogen. Oxides of carbon. 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: Avoid contact with eyes, skin and clothing.

Storage: For safe storage, store between 4 °C (39.2 °F) and 38 °C (100.4 °F)

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

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Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Dimethacrylate ester	None	None	None	None
Methacrylate monomer	None	None	None	None
2-Hydroxyethyl methacrylate	None	None	None	3 ppm Ceiling
Fumarate resin	None	None	None	None
Polyurethane methacrylate resin	None	None	None	None
Acrylic acid	2 ppm TWA (SKIN)	None	None	1 ppm TWA 3 ppm STEL (SKIN)
Hydroxyalkyl methacrylate	None	None	None	1 ppm TWA 3 ppm STEL
1-Acetyl-2-phenylhydrazine	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 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. Nitrile gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:LiquidColor:GreenOdor:CharacteristicOdor threshold:Not available.pH:Not applicable

 Vapor pressure:
 < 5 mm hg (80 °F (26.7 °C))</td>

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

Melting point/ range: Not available. Specific gravity: 1.01 Vapor density: Not available. Flash point: 93.3 °C (199.94 °F) 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: < 3 %

#### 10. STABILITY AND REACTIVITY

Stability: Stable

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Hazardous reactions: Will not occur.

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

Incompatible materials: Strong oxidizing agents. Reducing agents. Free radical initiators.

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)
Dimethacrylate ester	No	No	No
Methacrylate monomer	No	No	No
2-Hydroxyethyl methacrylate	No	No	No
Fumarate resin	No	No	No
Polyurethane methacrylate resin	No	No	No
Acrylic acid	No	No	No
Hydroxyalkyl methacrylate	No	No	No
1-Acetyl-2-phenylhydrazine	No	No	No

Hazardous components	Health Effects/Target Organs
Dimethacrylate ester	Irritant, Allergen
Methacrylate monomer	No Records
2-Hydroxyethyl methacrylate	Irritant, Allergen
Fumarate resin	No Target Organs
Polyurethane methacrylate resin	Irritant, Allergen
Acrylic acid	Allergen, Corrosive, Irritant, Kidney, Liver
Hydroxyalkyl methacrylate	Irritant, Allergen
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

#### **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: 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

# 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.

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TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimis CERCLA/SARA Section 311/312: Delayed Health, Immediate 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). Acrylic acid (CAS# 79-10-7).

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: One or more components are not listed on, and are not exempt from listing on either the

Domestic Substances List or the Non-Domestic Substances List.

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: 9, 14

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