

Revision Number: 005.0 Issue date: 08/21/2014

# 1. PRODUCT AND COMPANY IDENTIFICATION

IDH number:

Product name: LOCTITE 277 HIGH STRENGTH

THREADLOCKER known as 277

Threadlocker

Product type:Anaerobic SealantItem number:27741Restriction of Use:None identifiedRegion:United StatesCompany address:Contact information:

Company address: Henkel Corporation

One Henkel Way

Rocky Hill, Connecticut 06067

WARNING:

Telephone: (860) 571-5100

MEDICAL EMERGENCY Phone: Poison Control Center

88449

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 CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION.

CAUSES SERIOUS EYE IRRITATION.

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

#### PICTOGRAM(S)



#### **Precautionary Statements**

**Prevention:** Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work

clothing should not be allowed out of the workplace. Wear eye and face protection. Wear

protective gloves.

**Response:** IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical

attention. Take off contaminated clothing.

Storage: Not prescribed

**Disposal:** Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

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Hazardous Component(s)	CAS Number	Percentage*
Polyglycol dimethacrylate	Proprietary	30 - 60
Cumene hydroperoxide	80-15-9	1 - 5
Saccharin	81-07-2	1 - 5
Cumene	98-82-8	0.1 - 1

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

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Get medical attention.

Skin contact: Immediately flush skin with plenty of water (using soap, if available). Remove

contaminated clothing and footwear. Wash clothing before reuse. Get medical

attention.

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

minutes. Get medical attention.

**Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel.

Never give anything by mouth to an unconscious person. Get medical

attention.

Symptoms: See Section 11.

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# 5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

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

turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Uncontrolled polymerization may occur at high temperatures resulting in

explosions or rupture of storage containers.

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: Remove all sources of ignition. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Store in a partly filled, closed container until disposal. Refer to Section 8 "Exposure

Controls / Personal Protection" prior to clean up.

# 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. Prevent contact with eyes, skin and

clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Keep container closed. Refer to Section 8.

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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER	
Polyglycol dimethacrylate	None	None	None	None	
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None	
Saccharin	None	None	None	None	
Cumene	50 ppm TWA	50 ppm (245 mg/m3) PEL (SKIN)		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. Full face protection should

be used if the potential for splashing or spraying of product exists. Safety

showers and eye wash stations should be available.

**Skin protection:**Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Neoprene gloves. Butyl rubber

gloves. Natural rubber gloves.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid Color: Red

Odor: Characteristic
Odor threshold: Not available.
pH: Not applicable

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

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

Melting point/ range: Not available.

Specific gravity: 1.1

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):

Not available.

Not available.

Not available.

VOC content: 0.71 %; 7.13 g/l (California SCAQMD Method 316B) (Estimated)

Viscosity: Not available.

Decomposition temperature: Not available.

# 10. STABILITY AND REACTIVITY

**Stability**: Stable under normal conditions of storage and use.

Hazardous reactions: None under normal processing. Polymerization may occur at elevated temperature or in the

presence of incompatible materials.

**Hazardous decomposition** 

products:

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Oxides of carbon. Oxides of sulfur. Oxides of nitrogen. Irritating organic vapours. Phenolics.

Incompatible materials: Strong acids and oxidizing agents. Copper. Rust. Iron. Oxygen scavengers. Strong alkalis.

Reducing agents. Other polymerization initiators.

Reactivity: Not available.

Conditions to avoid: Elevated temperatures. Heat, flames, sparks and other sources of ignition. Store away from

incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

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

#### Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system.

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

**Eye contact:** Causes serious eye irritation.

**Ingestion:** May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects  Allergen, Irritant	
Polyglycol dimethacrylate	None		
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Saccharin	None	No Target Organs	
Cumene	Oral LD50 (RAT) = 2.91 g/kg Oral LD50 (RAT) = 1,400 mg/kg Inhalation I C50 (RAT, 4 h) = 8000 ppm	Central nervous system, Irritant, Lung	

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Cumene hydroperoxide	No	No	No
Saccharin	No	No	No
Cumene	No	Group 2B	No

# 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 transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

Proper shipping name:
Hazard class or division:
Identification number:
None
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)

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

Additional information: IMDG-Code: Segregation group 1- Acids

# 15. REGULATORY INFORMATION

**United States Regulatory Information** 

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act

Inventory.

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

CERCLA/SARA Section 302 EHS: None above reporting de minimis
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health
CERCLA/SARA Section 313: This product contains the following

CERCLA/SARA Section 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). Saccharin (CAS# 81-07-2).

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.

Canada Regulatory Information

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

Substances List.

# 16. OTHER INFORMATION

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

Prepared by: Sheila Gines, Regulatory Affairs Specialist

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