Material Safety Data Sheet





Revision Number: 004.3

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product type:

Company address: Henkel Corporation

Rocky Hill, Connecticut 06067

One Henkel Way

Loctite(R) 277 Threadlocker High Strength Anaerobic Sealant IDH number:

231089

Item number:21434Region:United StatesContact information:Telephone:860.571.5100Emergency telephone:860.571.5100Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW			
Physical state: Color: Odor:	Liquid Red Characteristic	HMIS: HEALTH: FLAMMABILITY: PHYSICAL HAZARD:	*2 1 1
WARNING:		Personal Protection: SE ALLERGIC SKIN REACTION. SE EYE AND RESPIRATORY TRACT IRF	See MSDS Section 8
Relevant routes of exposure: Skin, Inhalation, Eyes			
Potential Health Effects			
Inhalation:May cause respiratory tract irritation.Skin contact:May cause allergic skin reaction.Eye contact:May cause irritation.Ingestion:May be harmful if swallowed.			
Existing conditions aggra exposure:	vated by Eye, ski	n, 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	
Bisphenol A fumarate resin	39382-25-7	30 - 60	
Cumene hydroperoxide	80-15-9	1 - 5	
Saccharin	81-07-2	1 - 5	

4. FIRST AID MEASURES

Inhalation:

Skin contact:

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

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	E FIGHTING MEASURES
Flash point:	> 93.3 °C (> 199.94 °F) Tagliabue closed cup
Autoignition temperature:	Not available
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
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.

disposal. 7. HANDLING AND STORAGE	
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
Environmental precautions:	Ventilate area. Do not allow product to enter sewer or waterways.

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
Bisphenol A fumarate resin	None	None	None	None
Cumene hydroperoxide	None	None	1 ppm (6 mg/m3) TWA (SKIN)	None
Saccharin	None	None	None	None

Engineering controls:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator with an organic vapor cartridge.
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: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): VOC content:

Liquid Red Characteristic Not available Not applicable < 5 mm hg (27 °C (80.6 °F)) > 149 °C (> 300.2 °F) Not available 1.1 Not available > 93.3 °C (> 199.94 °F) Tagliabue closed cup Not available Not available Not available Not available Slight Not available 0.71 %; 7.13 g/l

10. STABILITY AND REACTIVITY Stability: Stable Hazardous reactions: Will not occur. Hazardous decomposition products: 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.

Conditions to avoid:

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)

See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10).

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Polyglycol dimethacrylate	No	No	No
Bisphenol A fumarate resin	No	No	No
Cumene hydroperoxide	No	No	No
Saccharin	No	No	No

Hazardous components	Health Effects/Target Organs	
Polyglycol dimethacrylate	Irritant, Allergen	
Bisphenol A fumarate resin	Irritant, Allergen	
Cumene hydroperoxide	Allergen, Central nervous system, Corrosive, Irritant, Mutagen	
Saccharin	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 regulated Hazard class or division: None Identification number: None Packing group: None		
International Air Transportation (ICAO/IATA) Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None None	
Water Transportation (IMO/IMDG) Proper shipping name: Hazard class or division: Identification number: Packing group:	Not regulated None None 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 Delayed Health, Immediate 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).
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	
CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

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.