Material Safety Data Sheet





Revision Number: 003.6

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Product use: Threadlocker 277 Heavy Duty Sealant

Company address: Henkel Corporation 2515 Meadowpine Boulevard Mississauga, Ontario L5N 6C3 IDH number:555353Item number:38656Region:CanadaContact information:Telephone:905.814.6511MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free) or1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free) or1-703-527-3887Internet:www.henkelna.com

2. HAZARDS IDENTIFICATION

		EMERGENCY OVERVIEW	
Physical state: Color: Odor:	Liquid Red Characteristic	WHMIS hazard class:	D.2.A, D.2.B
WARNING:		ISE ALLERGIC SKIN REACTION. ISE EYE AND RESPIRATORY TRACT I	RRITATION.
Relevant routes of expo	sure: Skin, In	nhalation, Eyes	
Potential Health Effects			
Inhalation: Skin contact Eye contact: Ingestion:	t: May cau May cau	ause respiratory tract irritation. ause allergic skin reaction. ause irritation. e harmful if swallowed.	
Existing conditions agg exposure:	ravated by Eye, ski	kin, and respiratory disorders.	

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
Cumene	98-82-8	0.1 - 1

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:	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.
Sensitivity to Mechanical Impact:	Not available.
Sensitivity to static discharge:	Not available.

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:	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 Canada Customer Service at (905) 814-6511.

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
Cumene	50 ppm TWA	50 ppm (245 mg/m3) TWA (SKIN)	None	None
Engineering controls:			ended when general ve ination below occupatio	
Respiratory protection:	None required where adequate ventilation conditions exist. If airborne concentrations are above the applicable exposure limits, use NIOSH approve respiratory protection. Use an organic vapor respirator for concentrations exceeding the Occupational Exposure Limit.		se NIOSH approved	
Eye/face protection:	Safety goggles	or safety glasses wit	h side shields.	
Skin protection:	Use impermeable gloves and protective clothing as necessary to prevent skir 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:	See "Handling and Storage" (Section 7) and "Incompatibility" (Section 10)
11. TO	XICOLOGICAL INFORMATION

Acute oral product toxicity:

Acute dermal product toxicity:

LD50 (rat) > 5,000 mg/kg (Estimated)

LD50 (rabbit) > 2,000 mg/kg (Estimated)

Toxicologically synergistic products: Not available.

Refer to the following for Irritancy of Product, Sensitization to Product, Carcinogenicity, Reproductive Toxicity, Teratogenicity, and Mutagenicity.

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)	ACGIH Carcinogen
Polyglycol dimethacrylate	No	No	No	No
Bisphenol A fumarate resin	No	No	No	No
Cumene hydroperoxide	No	No	No	No
Saccharin	No	No	No	No
Cumene	No	Group 2B	No	No

Hazardous components	LD50s and LC50s	Health Effects/Target Organs
Polyglycol dimethacrylate	None	Irritant, Allergen
Bisphenol A fumarate resin	None	No Target Organs
Cumene hydroperoxide	None	Allergen, Central nervous system, Corrosive, Irritant, Mutagen
Saccharin	None	No Target Organs
Cumene	Oral LD50 (RAT) = 1,400 mg/kg Oral LD50 (RAT) = 2.91 g/kg Inhalation LC50 (RAT, 4 h) = 8,000 mg/l	Central nervous system, Irritant, Lung

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.

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.

Canada Transportation of Dangerous Goods - Ground

Hazard class or division:NoneIdentification number:NonePacking group:NoneInternational Air Transportation (ICAO/IATA)Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NonePacking group:NoneVater Transportation (IMO/IMDG)Proper shipping name:Not regulatedHazard class or division:NoneVater Transportation (IMO/IMDG)Proper shipping name:Not regulatedHazard class or division:NoneIdentification number:NoneAdditional information:IMDG-Code: Segregation group 1- Acids	Proper shipping name:	Not regulated
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 Uater Transportation (IMO/IMDG) Image: Not regulated Hazard class or division: None Identification number: None Proper shipping name: Not regulated Hazard class or division: None Identification number: None Packing group: None	Hazard class or division:	None
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Hazard class or division:NoneIdentification number:NonePacking group:None	Water Transportation (IMO/IMDG)	
Identification number:NonePacking group:None	Proper shipping name:	Not regulated
Packing group: None	Hazard class or division:	None
	Identification number:	None
Additional information: IMDG-Code: Segregation group 1- Acids	Packing group:	None
	Additional information:	IMDG-Code: Segregation group 1- Acids

15. REGULATORY INFORMATION

Canada Regulatory Information

CEPA DSL/NDSL Status:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

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.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1, 2, 3, 8, 11

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR), and the MSDS contains all the information required by the CPR.

Prepared by: Kyra Kozak Woods, Manager, Regulatory Affairs

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