

Permatex, Inc.  
 10 Columbus Blvd.  
 Hartford, CT 06106 USA  
 Telephone: 1-87-Permatex  
 (877) 376-2839  
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Part #  
 27140

## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** HIGH STRENGTH THREADLOCKER RED 36ML  
**Item No:** 27140P  
**Product Type:** Anaerobic

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
METHACRYLATE MONOMER 25852-47-5	60-70	Not Listed	Not Listed
POLYESTER RESIN MIXTURE	20-30	Not Listed	Not Listed
SACCHARIN 81-07-2	1-10	10mg/m <sup>3</sup> nuisance dust	Not Listed
-DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	1-10	Not Listed	Not Listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:** May cause eye and skin irritation. At elevated temperatures may cause irritation of the respiratory tract. Irritates mucous membranes. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. May cause central nervous system (CNS) depression. May cause skin sensitization.

**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation.

**Signs and Symptoms of Exposure:** Repeated skin contact may cause allergic skin reactions. Skin redness. Ingestion may cause nausea and vomiting. Inhalation overexposure may cause irritation, coughing and flu-like symptoms. May cause pain, redness or swelling of the eyes and excessive blinking and tear production.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
SACCHARIN 81-07-2	1-10	Delisted April 2000		Group 3: Vol 73, Page 517: 1999

**Medical Conditions Recognized as Being Aggravated by Exposure:** Preexisting skin disorders.

### 4. FIRST AID MEASURES

**Ingestion:** If swallowed, seek medical advice immediately and show this container or label

**Inhalation:** This product has a very low vapor pressure. Vapor inhalation under ambient conditions is normally not a problem.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician

**Eye Contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice

### 5. FIRE FIGHTING MEASURES

**Flash Point (°F/C):** More than 200 degrees C. Method: PMCC

**Recommended Extinguishing Media:** Water fog, carbon dioxide, foam, dry chemical.

**Special Fire-Fighting Procedures:** Firefighters should wear self-contained breathing apparatus.

**Hazardous Products Formed by Fire or Thermal Decomposition:** Irritating vapors.

**Unusual Fire/Explosion Hazards:** Closed containers may rupture or explode when exposed to extreme heat.

**Lower Explosive Limit:** Not determined

**Upper Explosive Limit:** Not determined

## **6. ACCIDENTAL RELEASE MEASURES**

**Spill Procedures:** Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.

## **7. HANDLING AND STORAGE**

**Storage:** Store below 100 degrees F.  
**Handling:** Avoid prolonged skin contact. Keep away from eyes.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended.  
**Ventilation:** Provide adequate ventilation  
**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Red liquid  
**Odor:** MILD  
**Boiling Point (°F):** More than 150 degrees C.  
**pH:** Does not apply  
**Solubility in Water:** Insoluble  
**Specific Gravity:** >1.0  
**VOC Content(Wt.%):** Not determined  
**Vapor Pressure:** Not determined  
**Vapor Density (Air=1):** Heavier than air  
**Evaporation Rate:** Not Determined

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** Stable at normal conditions  
**Hazardous Polymerization:** WILL NOT OCCUR  
**Incompatibilities:** Strong oxidizers, free radical initiators, inert gases.  
**Conditions to Avoid:** Heat  
**Hazardous Products Formed by Fire or Thermal Decomposition:** Irritating vapors.

## **11. TOXICOLOGICAL INFORMATION**

See Section 3

## **12. ECOLOGICAL INFORMATION**

No data available

## **13. DISPOSAL CONSIDERATIONS**

**Recommended Method of Disposal:** Disposal should be made in accordance with federal, state and local regulations.  
**US EPA Waste Number:** NH - Not a RCRA Hazardous Waste Material

## **14. TRANSPORTATION INFORMATION**

DOT (49CFR 172)

### **Domestic Ground Transport**

**DOT Shipping Name:** Unrestricted  
**Hazard Class:** NONE  
**UN/ID Number:** None  
**Marine Pollutant:** None

### **IATA**

**Proper Shipping Name:** not regulated  
**Class or Division:** None  
**UN/NA Number:** None

### **IMDG**

**Proper Shipping:** Unrestricted  
**Hazard Class:** None

**Product name:** HIGH STRENGTH THREADLOCKER  
RED 36ML

**Item** 27140P

**UN Number:** None

### **15. REGULATORY INFORMATION**

**SARA 313 Chemicals:** The following component(s) is listed as a SARA Section 313 Toxic Chemical.

**SARA 313 Information**  
DIMETHYLBENZYL HYDROPEROXIDE

**CALIFORNIA PROP 65:**  
No California Prop 65 chemicals are known to be present.

**TSCA Inventory Status:**  
**Listed on Inventory:** YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

### **16. OTHER INFORMATION**

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 1, REACTIVITY 1  
**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0  
NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.

**Prepared By:** Denise Boyd, Health and Safety Manager  
**Company:** Permatex, Inc. 10 Columbus Blvd. Hartford, CT USA  
06106

**Revision Date:** 07/10/2003  
**Revision** 1  
**Number:**

**Telephone Number:** 1-87-Permatex (877) 376-2839

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 271 High Strength Threadlocker Red  
 Item No.: 27140  
 Part No.: 27140  
 Product Type: Anaerobic

27100  
 27140

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyglycol dimethacrylate	25852-47-5	65-70
Bisphenol A fumarate resin	39382-25-7	20-25
SACCHARIN	81-07-2	3-5
CUMENE HYDROPEROXIDE*	80-15-9	1-3
N,N-Dialkyltoluidines	613-48-9	0.1-1

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant.  
 Estimated oral LD50 more than 5000mg/kg  
 Estimated dermal LD50 more than 2000mg/kg  
 Primary Routes of Entry: None known  
 Signs and symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals.  
 Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyglycol dimethacrylate	ALG IRR	NO	NO	NO
Bisphenol A fumarate resin	ALG IRR	NO	NO	NO
SACCHARIN	No Data	YES	2B	NO
CUMENE HYDROPEROXIDE	ALG CNS CDR IRR MUT	NO	NO	NO
N,N-Dialkyltoluidines	No Data	NO	NO	NO

Abbreviations

2B Possibly carcinogenic to humans  
 CNS Central nervous system  
 IRR Irritant  
 ALG Allergen  
 CDR Corrosive  
 MUT Mutagen

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
 Inhalation: Does not apply  
 Skin Contact: Flush with water.  
 Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200 °F Method: Tag Closed Cup  
 Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical  
 Hazardous Products formed by Fire or Thermal Decomp: Irritating organic vapors  
 Unusual Fire or Explosion Hazards: None  
 Explosive Limits:  
 (% by volume in air) Lower: Not available  
 (% by volume in air) Upper: Not available

MATERIAL SAFETY DATA SHEET

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Product Name: 271 High Strength Threadlocker Red  
Item No.: 271406. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Soak up in an inert absorbent. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGESafe Storage: Store below 100 deg. F  
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)  
Handling: Avoid prolonged skin contact. Keep away from eyes.8. EXPOSURE CONTROLS, PERSONAL PROTECTIONEyes: Safety glasses or goggles.  
Skin: Neoprene, rubber, or butyl rubber gloves.  
Ventilation: Does not apply

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance: Red liquid  
Odor: Mild  
Boiling Point: More than 300 °F  
pH: Does not apply  
Solubility in Water: Slight  
Specific Gravity: 1.10 at 80 °F  
Volatile Organic Compound (EPA Method 24) 12.0%; 132 g/l  
Vapor Pressure: Less than 5mm at 80 °F  
Vapor Density: Not available  
Evaporation Rate (Ether = 1) Not available10. STABILITY AND REACTIVITYStability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: None  
Hazardous Decomposition Products (non-thermal): None11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONSRecommended methods of disposal: Incinerate following EPA and local regulations.  
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material14. TRANSPORT INFORMATIONDOT (49 CFR 172)  
Domestic Ground Transport  
Proper Shipping Name: Unrestricted  
Hazard Class or Division: Unrestricted  
Identification Number: None  
Marine Pollutant: None  
IATA  
Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None15. REGULATORY INFORMATION

CA Proposition 65: This product contains Saccharin. No prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATIONEstimated NFPA(R) Code:  
Health Hazard: 1  
Fire Hazard: 1

MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: 271 High Strength Threadlocker Red  
Item No.: 2714016. OTHER INFORMATION-----(continued)Reactivity Hazard: 1  
Specific Hazard: Does not applyEstimated HMIS(R) Code:  
Health Hazard: 1  
Flammability Hazard: 1  
Reactivity Hazards: 1  
Personal Protection: See Section 8.NFPA is a registered trademark of the National Fire Protection Assn.  
HMIS is a registered trademark of the National Paint and Coatings Assn.Prepared By: Stephen Repetto  
Title: Research Chemist, Environmental Health & Safety  
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(24hr.) Phone: (860) 571-5100  
Revision Date: January 22, 1996 Revision: 0025

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 271(TM) High Strength Threadlocker Red  
 Item No.: 27140  
 Part No.: ~~27140~~  
 Product Type: Anaerobic

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyglycol dimethacrylate	25852-47-5	65-70
Bisphenol A fumarate resin	39382-25-7	20-25
SACCHARIN	81-07-2	3-5
CUMENE HYDROPEROXIDE*	80-15-9	1-3
N,N-Dialkyltoluidines	613-48-9	0.1-1

\* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
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Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
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3. HAZARDS IDENTIFICATION

Toxicity: Eye irritant.  
 Estimated oral LD50 more than 5000mg/kg  
 Estimated dermal LD50 more than 2000mg/kg

Primary Routes of Entry: None known

Signs and Symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals.

Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyglycol dimethacrylate	ALG IRR	NO	NO	NO
Bisphenol A fumarate resin	ALG IRR	NO	NO	NO
SACCHARIN	NTD	YES	2B	NO
CUMENE HYDROPEROXIDE	ALG CNS COR IRR MUT	NO	NO	NO
N,N-Dialkyltoluidines	NTD	NO	NO	NO

Abbreviations

2B Possibly carcinogenic to humans	ALG Allergen
CNS Central nervous system	COR Corrosive
IRR Irritant	MUT Mutagen
NTD No Target Organs	

4. FIRST AID MEASURES

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

Inhalation: Does not apply

Skin Contact: Flush with water.

Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200° F Method: Tag Closed Cup

Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical

Special Firefighting Procedures: Not available

Hazardous Products formed by Fire or Thermal Decomp: Irritating organic vapors

Unusual Fire or Explosion Hazards: None

Explosive Limits:  
 (% by volume in air) Lower Not available  
 (% by volume in air) Upper Not available

MATERIAL SAFETY DATA SHEET

Page 2 of 3

Product Name: 271(TM) High Strength Threadlocker Red  
Item No.: 271406. ACCIDENTAL RELEASE MEASURESSteps to be taken in case  
of spill or leak: Soak up in an inert absorbent. Store in a partly  
filled, closed container until disposal.7. HANDLING AND STORAGESafe Storage: Store below 100 deg. F  
(Contact Loctite Customer Service 1-800-243-4874 for shelf life information)  
Handling: Avoid prolonged skin contact. Keep away from eyes.8. EXPOSURE CONTROLS, PERSONAL PROTECTIONEyes: Safety glasses or goggles.  
Skin: Neoprene, rubber, or butyl rubber gloves.  
Ventilation: Does not apply  
Respiratory: Not available

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIESAppearance: Red liquid  
Odor: Mild  
Boiling Point: More than 300 °F  
pH: Does not apply  
Solubility in Water: Slight  
Specific Gravity: 1.10 at 80 °F  
Volatile Organic Compound  
(EPA Method 24) 12.0%; 132 g/l  
Vapor Pressure: Less than 5mm at 80 °F  
Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available10. STABILITY AND REACTIVITYStability: Stable  
Hazardous Polymerization: Will not occur  
Incompatibility: None  
Conditions to Avoid: Not available  
Hazardous Decomposition  
Products (non-thermal): None11. TOXICOLOGICAL INFORMATION

See Section 3.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONSRecommended methods of  
disposal: Incinerate following EPA and local regulations.  
EPA Hazardous Waste  
Number: NH - Not a RCRA Hazardous Waste Material14. TRANSPORTATION INFORMATIONDOT (49 CFR 172)  
Domestic Ground Transport  
Proper Shipping Name: Unrestricted  
Hazard Class or  
Division: Unrestricted  
Identification Number: None  
Marine Pollutant: None  
IATA  
Proper Shipping Name: Unrestricted  
Class or Division: Unrestricted  
UN or ID Number: None15. REGULATORY INFORMATIONCA Proposition 65: This product contains Saccharin. No prop65 hazard  
warning is necessary if this product is used as  
reasonably anticipated.

MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: 271(TM) High Strength Threadlocker Red  
Item No.: 2714016. OTHER INFORMATIONEstimated NFPA(R) Code:  
Health Hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 1  
Specific Hazard: Does not applyEstimated HMIS(R) Code:  
Health Hazard: 1  
Flammability Hazard: 1  
Reactivity Hazards: 1  
Personal Protection: See Section 8.NFPA is a registered  
HMIS is a registeredtrademark of the National Fire Protection Assn.  
trademark of the National Paint and Coatings Assn.Prepared By:  
Title:  
Company:  
(24hr.) Phone:  
Revision Date:Stephen Repetto  
Research Chemist; Safety, Health & Regulatory Affairs  
Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067  
(860) 571-5100  
January 27, 1999

Revision: 0027