

**Prod.Name:** GM 12345493 HIGH STRENGTH HIGH TEMPERATURE THREADLOCKER RED  
**Manufacturer:** ITW Permatex  
**HMCS ID:** 353600  
**SUC:** 05 - Adhesives - Solvent -Based Polyurethanes, Epoxies, and Sealers

# MATERIAL SAFETY DATA SHEET

**Revision:** 13.Jan.2011  
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## 1 PRODUCT AND COMPANY IDENTIFICATION

### PRODUCT INFORMATION

**Product Name:** GM 12345493 HIGH STRENGTH HIGH TEMPERATURE THREADLOCKER RED

#### External Keys:

89021297 Distributable Material (Part #)  
HIGH Primary Tradename - Distributable Material  
STRENGTH  
HIGH  
TEMPERATURE  
THREADLOCKE  
R - RED

### MANUFACTURER INFORMATION

**Manufacturer:** ITW Permatex

#### Address:

10 Columbus Blvd. USA Connecticut 06106 Hartford MAILING

#### Communication Lines:

Phone 877-376-2839 EMERGENCY  
Phone 877-376-2839 INFO  
Phone 800-255-3924 EMERGENCY  
Phone 813-348-0585 International Emergency  
Internet www.permatex.com Website (with MSDS)

#### Comment:

Process MSDS as OSHA Compliant.

## 2 INGREDIENT INFORMATION

### FORMULATION

#### Ingredients:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Prefix</u>	<u>Value</u>	<u>Unit</u>	<u>Exposure Limits</u>
2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis(4,1-phenyleneoxy-2,1-ethanediyl) ester	24448-20-2	Range	55 - 75	% Wt	No
2-Propenoic acid, 2-methyl-, monoester with 1,2-propanediol	27813-02-1	Range	10 - 30	% Wt	No
MALEIMIDE, N,N'-(m-PHENYLENE)DI-	3006-93-7	Range	10 - 30	% Wt	No
Siloxanes and Silicones, di-Me, reaction products with silica	67762-90-7	<	3	% Wt	No
HYDROPEROXIDE, alpha,alpha-DIMETHYLBENZYL-	80-15-9	<	3	% Wt	No

## 3 HAZARDS IDENTIFICATION

### Hazards Overview:

Toxicity: At elevated temperatures may cause irritation of the respiratory tract. Irritates mucous membranes. Ingestion may irritate digestive tract and cause nausea, vomiting and diarrhea. High concentrations may cause central nervous system (CNS) depression. May cause eye and skin irritation. May cause skin sensitization. Note: This product does not contain microcrystalline silica.

### Specific Hazards:

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

### Effects Of Overexposure:

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.

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### 3 HAZARDS IDENTIFICATION

**Medical Conditions Aggravated By Exposure:**

Preexisting skin disorders.

**Comment:**

Additional Health Hazard Data: AT ELEVATED TEMPERATURES MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. IRRITATES MUCOUS MEMBRANES. MAY CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

### 4 FIRST AID MEASURES

**First Aid By::**

Inhalation Move to fresh air in case of accidental Inhalation of vapours. Obtain medical attention.  
Skin Contact Wash off with soap and water. If skin irritation persists, call a physician.  
Eye Contact In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.  
Ingestion If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.

### 5 FIRE FIGHTING MEASURES

**Flash Point:**

> 200 °F

**Explosive Limits:**

Lower Explosive Limit Not Determined (LEL)  
Upper Explosive Limit Not Determined (UEL)

**Extinguishing Media:**

Recommended Extinguishing Media: Dry chemical, Carbon dioxide, Foam

**Fire and Explosion Hazards:**

Hazardous Products of Combustion: Oxides of carbon  
Unusual Fire/Explosion Hazards: Closed containers may rupture or explode when exposed to extreme heat. May polymerize exothermically.

**Special Fire Fighting Procedures:**

Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool.

**Comment:**

Firefighters should wear self-contained breathing apparatus.

### 6 ACCIDENTAL RELEASE MEASURES

#### SPILL OR LEAK PROCEDURES

**Recovery:**

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

**Disposal:**

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

### 7 HANDLING AND STORAGE

#### HANDLING

**Safe Handling Procedures:**

Avoid prolonged skin contact. Keep away from eyes. Wash thoroughly after handling.

#### STORAGE

**Storage Conditions:**

Store in a cool, dry area.

**Additional Information on Storage Conditions:**

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## 7 HANDLING AND STORAGE

### STORAGE

#### Additional Information on Storage Conditions:

Precautions to be Taken in Handling and Storage: DO NOT STORE AT OR BELOW 32 DEGREES F, AS INHIBITOR CAN SEPARATE AS A SOLID. PREVENT MOISTURE CONTACT. STORE IN TIGHTLY CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OXIDIZERS, RADIATION AND OTHER INITIATORS. PREVENT CONTAMINATION BY FOREIGN MATERIALS. USE ONLY NON-SPARKING TOOLS. AVOID PROLONGED SKIN CONTACT. KEEP AWAY FROM EYES. UNLESS INHIBITED, PRODUCT CAN POLYMERIZE, RAISING TEMPERATURE AND PRESSURE AND POSSIBLY RUPTURING THE CONTAINER. DO NOT BLANKET OR MIX WITH OXYGEN-FREE GAS AS IT RENDERS THE INHIBITOR INEFFECTIVE.

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Measures:

Ventilation: General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product.

### PERSONAL PROTECTIVE EQUIPMENT

#### Personal Protective Equipment (PPE):

Eye Protection Safety glasses.  
Respiratory Protection An approved organic vapor respirator should be worn when exposures are expected to exceed the applicable limits.  
Hand Protection Neoprene or nitrile gloves recommended.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### APPEARANCE

**Color:** RED

**Odor:** MUSTY

#### Comment:

Physical State: Liquid

### PHYSICAL PROPERTIES

#### pH Value:

Concentrate Does not apply

#### Changes of State:

Boiling Point Not Determined

#### Vapor Pressure:

Not Determined

#### Vapor Density:

> 1 Air=1

#### Evaporation Rate:

Not Determined

#### Specific Gravity:

= 1.1 = 20 °C

#### Solubility:

Water Negligible

#### VOC:

Theoretical VOC (by.

Calculated from MSDS data by

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

### PHYSICAL PROPERTIES

**VOC:**

wt.)	<	0.18	lb/gal	General Motors Technical review.
Theoretical VOC (by wt.)	<	2	%Wt	

## 10 STABILITY AND REACTIVITY

### STABILITY INFORMATION

**Stability Under Normal Conditions:** Stable

**Conditions to Avoid:**

Heat

**Incompatible Materials:**

Strong oxidizers, free radical initiators, inert gases, Peroxides, Reducing agents, Oxygen scavengers

**Hazardous Polymerization:**

May occur

**Comment:**

Chemical Stability: Stable at normal conditions

### HAZARDOUS DECOMPOSITION

**Reactions:**

<u>Type of Reaction</u>	<u>Reaction Products</u>
Decomposition	Hazardous Products of Combustion: Oxides of carbon

## 11 TOXICOLOGICAL INFORMATION

## 12 ECOLOGICAL INFORMATION

### ENVIRONMENTAL IMPACT

**Comment:**

NO DATA AVAILABLE

## 13 DISPOSAL CONSIDERATIONS

**Waste Disposal Information:**

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 TRANSPORT INFORMATION

**DOT Shipping Name:**

Not regulated

**DOT Hazard Class:**

None

**DOT UN Code:**

None

**Comment:**

IATA

Proper Shipping Name: Not regulated

Class or Division: None

UN/ID Number: None

IMDG

Proper Shipping: Not regulated

Hazard Class: None

UN Number: None

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### 14 TRANSPORT INFORMATION

**Comment:**

Marine Pollutant: None

### 15 REGULATORY INFORMATION

#### LABELLING

**Hazard Codes:**

HMIS Reactivity	0
HMIS Health	2
HMIS Flammability	1
NFPA Flammability	1
NFPA Health	2
NFPA Reactivity	0

#### NATIONAL REGULATIONS

**SARA 311/312:** No

**SARA 313:** Yes

**Immediate Health:** No

**Delayed Health:** No

**Fire:** No

**Sudden Pressure Release:** No

**Reactive:** No

**Other Regulation:**

SARA 313 Chemicals

TSCA Inventory Status

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

DIMETHYLBENZYL HYDROPEROXIDE

All components of this product are listed (or exempt) on the EPA TSCA inventory.

#### STATE/LOCAL REGULATIONS

**Comment:**

California Proposition 65: No California Prop 65 chemicals are known to be present at or above the No Significant Risk Level

### 16 OTHER INFORMATION

**Comments:**

Additional Exposure Limits: GM Occupational Exposure Guidelines (OEG) and State-TWA's were provided by General Motors.