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PERMATEX, INC.

11/17/99

HARTFORD, CT 06106  
TELEPHONE: (877) 376-2839

MATERIAL SAFETY DATA SHEET

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**QM-50A QUICKSET RESIN  
RESIN 81787**

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: QM-50A QUICKSET RESIN  
 Item No.: RESIN 81787 Part of Kit: 81787  
 Product Type: Epoxy adhesive

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Epoxy resin	26142-30-3	10-15
Epoxy resin	25068-38-6	3-85
Epoxy resin	28906-96-9	3-5
Epoxy resin	25085-99-8	0-80

## 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: Possible skin and eye irritant. May cause skin or eye injury. Possible sensitizer.

Primary Routes of Entry: None known

Signs and Symptoms of Exposure: May cause dermatitis or sensitization on prolonged contact. Heated vapors may cause headache, nausea, dizziness, or respiratory irritation.

Existing Conditions Aggravated by Exposure: Allergy, eczema, skin conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO
Epoxy resin	ALG IRR	NO	NO	NO

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Product Name: QM-50A QUICKSET RESIN  
Item No.: RESIN 81787

## 3. HAZARDS IDENTIFICATION

(continued)

## Abbreviations

ALG Allergen

IRR Irritant

## 4. FIRST AID MEASURES

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

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and 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 Decomposition: Phenolics, oxides of carbon, hydrogen chloride, aldehydes

Unusual Fire or Explosion Hazards: None

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

## 6. ACCIDENTAL RELEASE MEASURES

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

## 7. HANDLING AND STORAGE

Safe Storage: Store below 100°F

Handling: Avoid prolonged skin contact. Keep away from eyes.

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Product Name: QM-50A QUICKSET RESIN  
Item No.: RESIN 81787

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
 Skin: Rubber or plastic gloves.  
 Ventilation: Not normally necessary, but mechanical and local exhaust ventilation may be desirable for prolonged use in a confined area.  
 Respiratory: NIOSH/MSHA approved organic cartridge respirator when ventilation is inadequate.

See Section 2 for Exposure Limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear water white to amber liquid  
 Odor: Mild  
 Boiling Point: More than 300°F  
 pH: Does not apply  
 Solubility in Water: Slight  
 Specific Gravity: 1.13-1.17  
 Volatile Organic Compound (EPA Method 24): 0.765%; 8.64 - 8.95 grams per liter  
 Vapor Pressure: Less than 5mm at 80°F  
 Vapor Density: Not available  
 Evaporation Rate (Ether = 1): Not available

## 10. STABILITY AND REACTIVITY

Stability: Stable  
 Hazardous Polymerization: Will not occur  
 Incompatibility: Oxidizing agents, bases, acids, amines, mercaptans  
 Conditions to Avoid: Not available  
 Hazardous Decomposition Products (non-thermal): None

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.  
 EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

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Product Name: QM-50A QUICKSET RESIN  
 Item No.: RESIN 81787

## 14. TRANSPORTATION INFORMATION

DOT (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: None

## 15. REGULATORY INFORMATION

CA Proposition 65: Warning: This product contains a chemical known to the State of California to cause cancer. Teaces of epichlorohydrin

## 16. OTHER INFORMATION

Estimated NFPA(R) Code:

Health Hazard: 1  
 Fire Hazard: 1  
 Reactivity Hazard: 0  
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:

Health Hazard: 1\*  
 Flammability Hazard: 1  
 Reactivity Hazards: 0  
 Personal Protection: See Section 8.

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 HMIS is a registered trademark of the National Paint and Coatings Assn.

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 Revision Date: January 27, 1999 Revision: 0003

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## MATERIAL SAFETY DATA SHEET

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QM-50A QUICKSET HARDENER  
HARDENER 81787

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: QM-50A QUICKSET HARDENER  
 Item No.: HARDENER 81787 Part of Kit: 81787  
 Product Type: Epoxy hardener

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polymercaptan	Proprietary	80-85
Substituted aminophenol	90-72-2	5-10
Nonylphenol	25154-52-3	3-5
Heptakis (dipropyleneglycol) triphosphite	116265-68-0	1-3

## 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)
---------------------------------------	----------------	---------------

## 3. HAZARDS IDENTIFICATION

Toxicity: Skin and eye irritant. Possible respiratory irritant. The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can also cause fatigue, muscular weakness, labored breathing, or gastrointestinal irritation if swallowed. The relatively low concentration of the aminophenol in the product may minimize some

Primary Routes of Entry: or all of these effects.  
 Signs and Symptoms: Skin, ingestion, inhalation.  
 of Exposure: Eye, skin, respiratory, or gastrointestinal irritation. It is possible that such irritation may be severe and lead to burns. Allergic reactions may occur.

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Product Name: QM-50A QUICKSET HARDENER  
 Item No.: HARDENER 81787

## 3. HAZARDS IDENTIFICATION

(continued)

## Existing Conditions:

Aggravated by Exposure: Skin, eye, lung conditions.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polymercaptan	No Data	NO	NO	NO
Substituted aminophenol	ALG IRR	NO	NO	NO
Nonylphenol	ALG COR IRR KID	NO	NO	NO
Heptakis (dipropyleneglycol) triphosphite	No Data	NO	NO	NO

## Abbreviations

ALG Allergen  
 IRR Irritant  
 COR Corrosive  
 KID Kidney

## 4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.  
 Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.  
 Skin Contact: Wash with soap and water.  
 Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

## 5. FIRE FIGHTING MEASURES

Flash Point: More than 200øF 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 Oxides of carbon, sulfur, nitrogen and phosphorus, phosphite/phosphate esters, hydrocarbon fragments, hydrogen sulfide, phenols, phosphine.

Unusual Fire or  
Explosion Hazards: None

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

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Product Name: QM-50A QUICKSET HARDENER  
Item No.: HARDENER 81787

#### 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case  
of spill or leak: Take up with an inert absorbent. Store in a closed container until disposal.

#### 7. HANDLING AND STORAGE

Safe Storage: Store below 110°F.  
Handling: Avoid skin contact. Keep away from eyes. Do not breathe vapors.

#### 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles.  
Skin: Rubber or plastic gloves.  
Ventilation: Local exhaust ventilation should be provided.  
Respiratory: NIOSH/MSHA approved organic cartridge respirator if ventilation is inadequate.

See Section 2 for Exposure Limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless, viscous liquid.  
Odor: Unpleasant  
Boiling Point: More than 300°F  
pH: Does not apply  
Solubility in Water: Slight  
Specific Gravity: 1.08  
Volatile Organic Compound  
(EPA Method 24) 11.08%; 119.7 grams per liter  
Vapor Pressure: Less than 5mm at 80°F  
Vapor Density: Not available  
Evaporation Rate  
(Ether = 1) Not available

#### 10. STABILITY AND REACTIVITY

Stability: Stable  
 Hazardous Polymerization: Will not occur  
 Incompatibility: Strong oxidizing agents, epoxy/amine mixtures.  
 Possibly acids, peroxides, acetaldehyde, caustics.  
 Conditions to Avoid: Not available  
 Hazardous Decomposition  
 Products (non-thermal): None

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Product Name: QM-50A QUICKSET HARDENER  
 Item No.: HARDENER 81787

## 11. TOXICOLOGICAL INFORMATION

See Section 3.

## 12. ECOLOGICAL INFORMATION

No data available

## 13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.  
 EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

## 14. TRANSPORTATION INFORMATION

DOT (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: None

## 15. REGULATORY INFORMATION

CA Proposition 65: No Californis Proposition 65 chemicals are known to be present.

## 16. OTHER INFORMATION



Estimated NFPA(R) Code:  
 Health Hazard: 2  
 Fire Hazard: 1  
 Reactivity Hazard: 0  
 Specific Hazard: Does not apply

Estimated HMIS(R) Code:  
 Health Hazard: 2\*  
 Flammability Hazard: 1  
 Reactivity Hazards: 0  
 Personal Protection: See Section 8.

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Product Name: QM-50A QUICKSET HARDENER  
 Item No.: HARDENER 81787

16. OTHER INFORMATION

(continued)

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