

# MATERIAL SAFETY DATA SHEET

**MANUFACTURER'S NAME:**

QUALITY SYSTEMS, INC.  
1101 Menzler Road  
Nashville, TN 37210

**EMERGENCY TELEPHONE NO.:**

(800) 535-5053

**DATE OF PREPARATION:**

04/22/91

**INFORMATION TELEPHONE NO.:**

(800) 607-3762

## SECTION I-PRODUCT IDENTIFICATION

**PRODUCT NAME:**

PERMA•POXY ENAMEL (TYPICAL)  
(Part A)

## SECTION II-HAZARDOUS INGREDIENTS

INGREDIENT	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE WT.	
	CAS#	OSHA PEL	ACGH TLV	OSHA STEL	mm Hg @ TEMP.	%
ALKYL GLYCIDYL ETHER	68609-97-2	NONE	NONE	NONE	N/A	
REACTION PRODUCTS OF EPICHLOROHYDRIN- BISPHENOL A	25068-38-6	NONE	NONE	NONE	1.0	356°F
PIGMENT Non Hazardous in Liquid	FORM	10 mg/m3	10mg/m3	5mg/m3	N/A	
EXTENDER Non Hazardous in Liquid	FORM	20mg/m3	20mg/m3	20mg/m3	N/A	
EXTENDER Non Hazardous in Liquid	FORM	NONE	5mg/m3	NONE	N/A	

\*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

## SECTION III-PHYSICAL DATA

<b>BOILING RANGE:</b>	200°F to 279°F	<b>EVAPORATION</b>	
<b>WT/GAL:</b>	10.70 (1282 g/l)	<b>RATE:</b>	N/A
<b>VOC:</b>	0.1 (12 g/l)	<b>% VOLATILE VOLUME:</b>	1%
<b>% WEIGHT SOLIDS:</b>	99.95	<b>APPEARANCE/ODOR:</b>	Low viscosity liquid in varying colors.

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

<b>FLAMMABILITY CLASSIFICATION:</b>	Slightly combustible - Class 111B
<b>FLASH POINT:</b>	200+°F
<b>EXTINGUISHING MEDIA:</b>	Foam, Alcohol Foam, CO <sub>2</sub> , Dry Chemical, Water, Other
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Respiratory equipment should be worn to avoid inhalation of concentrated vapors
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	None known
<b>HMS CODES:</b>	H - 2; F - 1; R - 0; PP - B

## SECTION V-HEALTH HAZARD DATA

<b>ROUTES OF ENTRY:</b>	Inhalation: Yes	Skin: Yes	Ingestion: Yes
<b>EFFECTS OF OVEREXPOSURE:</b>			

**INHALATION:** Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death. **EYE CONTACT:** Severe irritation, tearing, redness, blurred vision, and blindness. **SKIN CONTACT:** Irritation and dermatitis. **INGESTION:** Can cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:**

Asthma, respiratory tract irritation, dermatitis, nausea, vomiting.

**FIRST AID:**

**INHALATION:** Move exposed person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

**EYE CONTACT:** Flush with large quantities of water for 15 minutes.

**SKIN CONTACT:** Wash thoroughly with soap and water and see a doctor; remove contaminated clothing.

**INGESTION:** Contact physician immediately.

**SECTION VI-REACTIVITY DATA**

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Excessive heat, poor ventilation, corrosive atmospheres, excessive aging.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, carbon dioxide, oxides of nitrogen.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Alkaline materials, strong acids and oxidizing materials.

**SECTION VII-SPILL AND DISPOSAL PROCEDURES**

**SPILL RESPONSE:** Eliminate ignition sources, provide good ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid.

**RECOMMENDED DISPOSAL:** Collect absorbent/spilled liquid mixture into metal containers. Consult local, state and federal hazardous waste regulation before disposing into approved hazardous waste landfills. Obey relevant laws.

**SECTION VIII-SAFE HANDLING AND USE INFORMATION**

**RESPIRATORY PROTECTION:** When spraying this material use a NIOSH approved cartridge respirator or gas mask suitable to keep airborne and vapor concentration below the time-weighted threshold limit values. When using in poorly ventilated and confined spaces, use a fresh-air supplying respirator or a self-contained breathing apparatus.

**VENTILATION:** General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment should be explosion proof.

**PROTECTIVE GLOVES:** Impermeable chemical handling gloves for skin protection.

**EYE PROTECTION:** Wear splash proof chemical goggles. Eye wash fountain should be available.

**OTHER PROTECTIVE EQUIPMENT:** Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended

**HYGIENIC PRACTICES:** Eye washes and safety showers in the workplace are recommended.

**SECTION IX-SPECIAL PRECAUTIONS**

**RECOMMENDED STORAGE:** Use non-sparking utensils when handling this material. Avoid hot metal surfaces. Use in cool, well ventilated areas. Keep containers closed when not in use. Keep away from excessive heat and open flames.

**OTHER PRECAUTIONS:** Smoking in areas where this material is used should be strictly prohibited.

**Abbreviations:** N/D - Not Determined

N/A - Not Applicable

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This information is accurate to the best knowledge of Quality Systems, Inc. (QSI), but is furnished without any expressed or implied warranties. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS is reviewed annually by QSI; original formulation has not changed

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08/15/94

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## SECTION I-PRODUCT IDENTIFICATION

**PRODUCT NAME:**

PERMA•POXY ENAMEL (TYPICAL)  
(Part B)

## SECTION II-HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	OSHA PEL	VAP/PRESS	PROD %
NONYL PHENOL	2514-52-3	N/D	N/A	N/D
3-AMINO METHYL-3,5,5 - TRIMETHYL CYCLOHEXANE	2855-13-2	N/D	N/A	N/D
BENZYL ALCOHOL	100-51-6	N/D	1.0 mm Hg	21.91

\*\* No toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40CFR 372 are present. \*\*

## SECTION III-PHYSICAL DATA

<b>BOILING RANGE:</b>	401° to 560°F	<b>EVAPORATION</b>	
<b>WIGAL:</b>	11.70 (1401 g/l)	<b>RATE:</b>	N/A
<b>VOC:</b>	0.00 (0 g/l)	<b>APPEARANCE/ODOR:</b>	Amber clear liquid with amine odor.
<b>SOLUBILITY IN WATER:</b>	Negligible		

## SECTION IV-FIRE AND EXPLOSION HAZARD DATA

<b>FLAMMABILITY CLASSIFICATION:</b>	Slightly combustible - Class 111B
<b>FLASH POINT:</b>	200°F
<b>EXTINGUISHING MEDIA:</b>	Foam, Alcohol Foam, CO <sub>2</sub> , Dry Chemical, Water, Other
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Respiratory equipment should be worn to avoid inhalation of concentrated vapors. Toxic fumes will be evolved when this material is involved in a fire.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	None known.
<b>HMS CODES:</b>	H - 2; F - 1; R - 0; PP - B

## SECTION V-HEALTH HAZARD DATA

**ROUTES OF ENTRY:** Inhalation: Yes Skin: Yes Ingestion: Yes

**EFFECTS OF OVEREXPOSURE:**

INHALATION: Dizziness, breathing difficulty, headaches, loss of coordination, unconsciousness, and death. EYE CONTACT: Severe irritation, tearing, redness, blurred vision, and blindness. SKIN CONTACT: Irritation and dermatitis. INGESTION: Can cause gastrointestinal irritation, vomiting, nausea, diarrhea, and death.

## SECTION V-HEALTH HAZARD DATA-Cont'd.

### MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

Asthma, respiratory tract irritation, dermatitis, nausea, vomiting.

### FIRST AID:

**INHALATION:** Move exposed person to fresh air. If breathing stops, apply artificial respiration and seek immediate medical attention.

**EYE CONTACT:** Flush with large quantities of water for 15 minutes.

**SKIN CONTACT:** Wash thoroughly with soap and water and see a doctor. Remove contaminated clothing.

**INGESTION:** Contact physician immediately. Do not induce vomiting. Dilute by giving water or milk to drink.

## SECTION VI-REACTIVITY DATA

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** Excessive heat, poor ventilation, corrosive atmospheres, excessive aging, open flames.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION:** Carbon monoxide, carbon dioxide, oxides of nitrogen.

### INCOMPATIBILITY

**(MATERIALS TO AVOID):** Alkaline materials, strong acids and oxidizing materials.

## SECTION VII-SPILL AND DISPOSAL PROCEDURES

**SPILL RESPONSE:** Eliminate ignition sources, provide good ventilation, dike spill area and add absorbent earth or sawdust to spilled liquid.

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**VENTILATION:** General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV. Ventilation equipment should be explosion proof.

**PROTECTIVE GLOVES:** Impermeable chemical handling gloves for skin protection.

**EYE PROTECTION:** Use chemical safety glasses, goggles, and face shields for eye protection.

**OTHER PROTECTIVE EQUIPMENT:** Use impermeable aprons and protective clothing whenever possible to prevent skin contact. The use of head caps whenever possible is strongly recommended.

**HYGIENIC PRACTICES:** Eye washes and safety showers in the workplace are recommended.

## SECTION IX-SPECIAL PRECAUTIONS

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