

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:

02/06/06

INFORMATION TELEPHONE NO.:

(800) 607-3762

SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: PERMA•BOND CRACK REPAIR
(Part A)

SECTION II-HAZARDOUS INGREDIENTS

INGREDIENT	CAS Number	Weight Percent
AROMATIC HYDROCARBON BLEND	Mixture	_____
MODIFIED EPOXY RESIN	Trade Secret	_____
NONYL PHENOL	84852-15-3	_____

NOTE: This is Part A of a two-part system which is combined before use.

SECTION III-PHYSICAL DATA

BOILING POINT:	N/AV °F	PERCENT VOCs:	2.0
VAPOR PRESSURE:	N/AV	VOC CONTENT:	21.8gms/liter (parts A & B combined)
EVAPORATION RATE:	Slower than ether	VISCOSITY (mixed):	375 cps
VAPOR DENSITY:	AIR	MELTING PONT:	N/AV °F
SOLUBILITY IN WATER:	N/AV	APPEARANCE & ODOR:	Light yellow liquid, mild aromatic odor
SP. GRAVITY:	1.12		

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	220°F
FLAMMABLE LIMITS - LEL:	N/D
FLAMMABLE LIMITS - UEL:	N/D
AUTOIGNITION TEMPERATURE:	N/AV °F
EXTINGUISHING MEDIA:	Water spray (fog) foam, Dry chemical, or CO2.
SPECIAL FIRE FIGHTING PROCEDURES:	Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head. Water or foam may cause frothing.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None known.
NFPA - HAZARD CODES:	HEALTH: 2 FIRE: 1 REACTIVITY: 0 PPE: C

SECTION V-HEALTH HAZARD DATA

EYE CONTACT: May cause eye irritation.

SKIN CONTACT: May cause skin irritation. Prolonged or repeated skin contact may cause an allergic reaction/sensitization.

INHALATION: May cause respiratory tract irritation.

IF SWALLOWED: Harmful if swallowed.

FIRST AID:

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT: Immediately wash skin with soap and large amounts of water. If signs/symptoms occur (redness, rash, blistering), call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration and seek medical attention.

IF SWALLOWED: If swallowed, do not induce vomiting. If victim is fully conscious, give one or two cups of water or milk to drink. Call a physician immediately.

SECTION VI-REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY : Strong oxidizing materials, acids and bases.

HAZARDOUS

POLYMERIZATION: Will not occur.

HAZARDOUS

DECOMPOSITION PRODUCTS: CO, CO₂, Aldehydes and other organics.

CONDITIONS TO AVOID: Fires/Exotherm when curing in mass.

SECTION VII-SPILL AND DISPOSAL PROCEDURES

SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 800-535-5053 for 24-hour spill assistance. Contain spill. Cover with absorbent material. Collect spilled material. Place in an approved metal container and seal.

RECOMMENDED DISPOSAL: Dispose in accordance with applicable federal, state and local government regulations.

ENVIRONMENTAL DATA: All ingredients of this product are listed or are excluded from listing under U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No REACTIVITY: No
ACUTE: Yes CHRONIC: Yes

SECTION VIII-SAFE HANDLING AND USE INFORMATION

EYE PROTECTION: Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION: Avoid skin contact. A pair of gloves made from the following material(s) is recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: coveralls.

VENTILATION PROTECTION: Use with adequate dilution ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION: A respirator protection program that meets 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

GENERAL PROTECTION: Wash thoroughly after handling.

SECTION IX-SPECIAL PRECAUTIONS

RECOMMENDED STORAGE: Store dry at 40° - 90° F. Store away from heat. Store out of direct sunlight. Keep container closed and in a cool, dry, well-ventilated area. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE: None known.

EXPOSURE LIMITS:

INGREDIENTS:

Aromatic Hydrocarbon Blend
ACGIH TLV: Not Established.
OSHA PEL: Not Established.
NTP: No
IARC: No

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration

(Please continue for Part B)

Abbreviations: N/D - Not Determined

N/A - Not Applicable

This information is accurate to the best knowledge of Quality Systems, Inc., 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.

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SECTION I-PRODUCT IDENTIFICATION

PRODUCT NAME: PERMA•BOND CRACK REPAIR
(Part B)

SECTION II-HAZARDOUS INGREDIENTS

INGREDIENT	CAS Number	Weight Percent
AROMATIC HYDROCARBON BLEND	Mixture	_____
BENZYL ALCOHOL	100-51-6	_____
NONYL PHENOL	84852-15-3	_____
PROPRIETARY BLEND OF CYCLIC & ALIPHATIC AMINES	Trade Secret	

NOTE: This is Part B of a two-part system which is combined before use

SECTION III-PHYSICAL DATA

BOILING POINT:	N/AV ⁰ F	PERCENT VOCs:	2.0
VAPOR PRESSURE:	N/AV	VOC CONTENT:	21.8 gms/liter
VAPOR DENSITY:	> Air	VISCOSITY (mixed):	375 cps
EVAPORATION RATE:	Slower than ether	MELTING POINT:	N/AV ⁰ F
SOLUBILITY IN WATER:	N/AV		
SP. GRAVITY:	0.98		
APPEARANCE AND ODOR:	Amber liquid, Amine odor		

SECTION IV-FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:	>220 ⁰ F
FLAMMABLE LIMITS - LEL:	N/D
FLAMMABLE LIMITS - UEL:	N/D
AUTOIGNITION TEMPERATURE:	N/AV ⁰ F
EXTINGUISHING MEDIA:	Water spray (fog) foam, Dry chemical, CO2.

SPECIAL FIRE FIGHTING PROCEDURES: Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waste and legs, face mask, and protective covering for exposed areas of the head. Water or foam may cause frothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers exposed to heat from fire may build pressure and explode.

NFPA - HAZARD CODES: HEALTH: 3 FIRE: 1 REACTIVITY: 0 PPE: D

SECTION V-HEALTH HAZARD DATA

EYE CONTACT: Corrosive to living tissue. Causes eye irritation. Causes irreversible eye damage.

SKIN CONTACT: Corrosive to living tissue. Causes skin irritation. Prolonged and/or repeated skin contact may cause an allergic reaction/sensitization.

INHALATION: Causes respiratory tract irritation. May cause nose, throat, and lung irritation.

IF SWALLOWED: Corrosive to living tissue. Harmful if swallowed.

FIRST AID:

EYE CONTACT: In case of contact, hold eyelids apart and immediately flush eyes with plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

SKIN CONTACT: In case of contact, immediately flush skin with soap and plenty of tepid water for at least 15 minutes. Get medical attention immediately if irritation (redness, rash, blistering) develops and persists.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. Contact a physician immediately.

IF SWALLOWED: If victim is fully conscious, give one or two cups of water to drink. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Contact physician. Never give anything by mouth to an unconscious victim.

SECTION VI-REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY : Materials to avoid: Strong acids, strong oxidizers, strong alkali, transition metals, salts, reducing agents and vermiculite.

**HAZARDOUS
POLYMERIZATION:** Will not occur.

**HAZARDOUS
DECOMPOSITION PRODUCTS:** CO, CO₂, Oxides of Nitrogen

CONDITIONS TO AVOID: Fires/Exotherm when curing in mass.

SECTION VII-SPILL AND DISPOSAL PROCEDURES

SPILL RESPONSE: Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 800-535-5053 for 24-hour spill assistance. Avoid release to environment. Use Personal Protective Equipment (PPE). Collect spilled material. Place in an approved metal container and seal. Do not flush to sewer or allow to enter waterways. Ventilate enclosed area.

RECOMMENDED DISPOSAL: Incinerate in an industrial or commercial facility. The container would no longer be considered hazardous.

ENVIRONMENTAL DATA: All ingredients of this product are listed or are excluded from listing under U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No REACTIVITY: No
ACUTE: Yes CHRONIC: Yes

SECTION VIII-SAFE HANDLING AND USE INFORMATION

EYE PROTECTION: Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) is recommended: butyl rubber. Use one or more of the following personal protection items as necessary to prevent skin contact: coveralls.

VENTILATION PROTECTION: Use with adequate dilution ventilation. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION: A respirator protection program that meets 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use. In areas where the Permissible Exposure Limits are exceeded, use a properly fitted NIOSH-approved respirator.

GENERAL PROTECTION: Wash thoroughly after handling.

SECTION IX-SPECIAL PRECAUTIONS

RECOMMENDED STORAGE: Store dry at 40^o - 90^o F. Store away from heat. Store out of direct sunlight. Keep container closed and in a cool, dry, well-ventilated area. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE: None known.

EXPOSURE LIMITS:

INGREDIENTS:

Aromatic Hydrocarbon Blend
ACGIH TLV: Not Established.
OSHA PEL: Not Established.
NTP: No
IARC: No

SECTION IX-SPECIAL PRECAUTIONS

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NONE: None Established

Abbreviations: N/D - Not Determined

N/A - Not Applicable

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