

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

**QUACORR® 1001 RESIN****Quick Identifier****QO®QUACORR® 1000 RESIN****Common Name (Used on label and list)****SECTION I**

## Manufacturer's Name and Address

Penn Specialty Chemicals, Inc.  
3324 Chelsea Avenue  
Memphis, TN 38108

## Emergency Telephone Number

**901-320-4092****HAZARD INFORMATION SERVICES: 800-228-5635**

(For Emergency Medical Information)

## For Product Information and Other Calls:

Penn Specialty Chemicals, Inc.:877-895-7366

Effective: February 23, 2004

Supersedes: July 15, 2003

**SECTION II - Hazardous Ingredients/Identity Information**

Hazardous Component(s) Chemical & Common Name(s)	OSHA PEL	ACGIH TLV	CAS NO.	%
Furfuryl alcohol homopolymer	Not established	Not established	25212-86-6	70-80%
Furfural	5 ppm (skin)	2 ppm (skin)	98-01-1	15-25%
Furfuryl alcohol	10 ppm (skin)	10 ppm (skin)	98-00-0	3-10%

**SECTION III - Physical/Chemical Characteristics**

Boiling Point	Vapor Density (Air=1)	Specific Gravity (H <sub>2</sub> O=1)	Vapor Pressure (mm Hg)
Not available	Not available	1.24	< 1 @ 68°F, 20°C

## Solubility in Water

Slightly soluble

## Reactivity in Water

None

## Appearance and Color

Dark reddish brown, viscous liquid.  
Mildly pungent odor.

## Melting Point/Freezing Point

Not available

**SECTION IV - Fire and Explosion Hazard Data**

Flash Point	Method Used	Flammable Limits in Air, % Volume	LEL Lower	UEL Upper
168°F, 76°C	Pensky-Martens		Not available	Not available

## Auto-Ignition temperature

Not available

## Extinguisher Media

"Alcohol" foam, carbon dioxide, dry chemical.

## Special Fire Fighting Procedures

Firefighters should have eye protection and wear self-contained breathing apparatus.  
Use water spray to cool containers exposed to fire.

## Unusual Fire and Explosion Hazards

Acid contamination can cause violent, exothermic polymerization.

**SECTION V - Physical Hazards/Reactivity Data**

Stability	Unstable	Conditions to Avoid
	Stable X	Normally stable; see warnings below.

## Incompatibility (Materials to Avoid)

Oxidizers. Acids. Contact with acids can cause violent eruptions and/or explosions.

## Hazardous Decomposition Products

Combustion produces carbon dioxide and carbon monoxide.

Hazardous Polymerization	May Occur	Will Not Occur
	X	

## Conditions to Avoid

Can occur on mixing with acids or acidic catalysts.

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## SECTION VI - Health Hazards

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Chemical Listed as Carcinogen	National Toxicology Yes	IARC Monographs Yes	OSHA Regulated
or Potential Carcinogen	No <input checked="" type="checkbox"/>	No <input checked="" type="checkbox"/>	Yes No <input checked="" type="checkbox"/>

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### Signs and Symptoms

Exposure

Detectable odor.

Acute Overexposure

Strong odor. Headache. Irritation of skin, eyes and respiratory tract. Staining of skin. Unconsciousness.

Chronic Overexposure

May cause dermatitis, sensitization of skin. Loss of taste, numbness of the tongue.

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### Emergency and First Aid Procedures for Overexposure - Obtain prompt medical attention.

Inhalation

Move to fresh air. If necessary, restore and support breathing.

Eyes

Immediately flush with water for 15 minutes while lifting eyelids and rolling eyes.

Get immediate medical attention.

Skin

Wash promptly with soap and water.

Ingestion

Get medical help. If conscious and medical help not readily available, give water.

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## SECTION VII - Special Precautions and Spill/Leak Procedures

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Precautions to be taken in Handling and Storage

Store in a cool, dry, well ventilated location. Outside or detached storage is preferred. Separate from oxidizers, acids, and acidic catalysts.

Other Precautions

Avoid acid contamination and skin contact. Keep containers tightly closed. No smoking or eating in handling area.

Steps to be taken in case Material is Released or Spilled

Shut off sources of ignition. Pick up spill on sand, earth or other non-combustible, absorbent material. Place in covered container for disposal. Flush area with water to remove last traces.

Waste Disposal Methods (Consult Federal, State and Local Regulations).

Dispose of in accord with regulations.

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## SECTION VIII - Special Protection and Control Measures

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Respiratory Protection (*Specify Type*)

NIOSH approved organic vapor air purifying respirator where TLV exceeded.

Ventilation and local exhaust required; keep below TLV.

Eye Protection

Chemical goggles and face shield.

Protective Gloves

Neoprene/natural rubber.

Other Protective Clothing or Equipment

Eye fountain and safety shower.

Work Hygiene Practices

Avoid direct contact with QUACORR<sup>®</sup> resin.

### Transport Information:

DOT: Toxic, liquids, organic, N.O.S., (Furfural Solution), 6.1, UN2810, PG III.

Label: Toxic.

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The data contained herein is based on information currently available to Penn Specialty Chemicals, Inc., and believed to be factual and the opinions expressed to be those of qualified experts; however, this data is not to be taken as a warranty or representation for which Penn Specialty Chemicals, Inc. assumes legal responsibility.

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