

**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

Quick Identifier

QO® 2-Furoic Acid

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: July 15, 2003

Supersedes: October 29, 1999

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

Hazardous Component(s) Chemical &amp; Common Name(s)

2-Furoic acid;

2-Furan carboxylic acid;

Furoic acid.

OSHA PEL

Not established

ACGIH TLV

Not established

CAS NO.

88-14-2

**SECTION III - Physical/Chemical Characteristics**

Boiling Point

446°F, 230°C

Vapor Density (Air=1)

3.8

Specific Gravity (H<sub>2</sub>O=1)

0.55 (Bulk Density)

Vapor Pressure (mm Hg)

1.8 @ 205°F, 96°C

Solubility in Water

Moderate

(3.6g/100g @68°F,20°C)

Reactivity in Water

Solution becomes acidic

Appearance and Color

Beige to pale brown crystalline solid.

Mild odor.

Melting Point/Freezing Point

264-266°F, 129-130°C

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

Flash Point

278°F, 137°C

Method Used

Setaflash

Flammable Limits in Air, % Volume

LEL Lower

Not available

UEL Upper

Not available

Auto-Ignition temperature

Not available

Extinguisher Media

Water spray, dry chemical, foam, carbon dioxide.

Special Fire Fighting Procedures

Firefighters should have eye protection and wear self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

See Section "V" below.

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

Stability	Unstable	Conditions to Avoid
	Stable <b>X</b>	Normally stable

Incompatibility (Materials to Avoid)

**Oxidizers. Bases**

Hazardous Decomposition Products

**Combustion produces carbon dioxide and carbon monoxide.**

Hazardous Polymerization	May Occur	Conditions to Avoid
	Will Not Occur <b>X</b>	

**SECTION VI - Health Hazards**

Chemical Listed as Carcinogen	National Toxicology	IARC Monographs	Yes	OSHA Regulated
or Potential Carcinogen	No <b>X</b>	No <b>X</b>		Yes No <b>X</b>

**Signs and Symptoms**

Exposure

**Mild odor.**

Acute Overexposure

**Sneezing. Irritation of skin, eyes and respiratory tract. Corrosive when wet.**

Chronic Overexposure

**No data available.****Emergency and First Aid Procedures for Overexposure - Obtain prompt medical attention.**

Inhalation

**Move to fresh air.**

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. DO NOT induce vomiting. If conscious and medical help not readily available, give water.****SECTION VII - Special Precautions and Spill/Leak Procedures**

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 and bases.**

Other Precautions

**Avoid skin contact. Keep containers tightly closed. No smoking or eating in handling area.**

Steps to be taken in case Material is Released or Spilled

**Pick up spill on sand, earth or other non-combustible, absorbent material. Flush area with water to remove last traces.**

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

**Dispose of as a corrosive waste 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 dust respirator if affected.

Ventilation and local exhaust required.

Eye Protection

Protective Gloves

Other Protective Clothing or Equipment

Chemical goggles and face shield. Impervious chemical gloves. Eye fountain and safety shower.

Work Hygiene Practices

Avoid direct contact with 2-Furoic acid. Wash thoroughly after handling.

**Transport Information:**

DOT: Not regulated as a hazardous material by DOT 49 CFR.

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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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