

Material Safety Data Sheet

Tetrahydrofuroic Acid

Quick Identifier

QO[®] Tetrahydrofuroic Acid

Common Name (used on label and list):

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

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: November 2, 1999

Section II - Hazardous Ingredients/Identity Information

Hazardous Component(s) Chemical & Common Name(s)	OSHA PEL	ACGIH TLV	CAS NO.	%
2-Tetrahydrofuroic acid	Not established	Not established	16874-33-2	

Note: This material is not listed in the EPA's Toxic Substances Control Act inventory. It should be used for experimental purposes by qualified personnel only.

Section III - Physical/Chemical Characteristics

Boiling Point 470°F, 243°C @ 736 mmHg	Vapor Density (Air=1) 4.0	Specific Gravity (H₂O = 1) 1.214	Vapor Pressure (mm Hg) 10 @ 255°F, 124°C
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Solubility in Water
Complete

Reactivity in Water
Solution becomes acidic

Appearance and Color
Colorless mobile liquid
Distinctive odor

Melting Point/Freezing Point
70°F, 21°C

Section IV - Fire and Explosion Hazard Data

Flash Point >283°F, >139°C	Method Used Setaflash	Flammable Limits in Air, % Volume	LEL Lower Not available	UEL Upper Not available
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Auto-Ignition temperature
Not Available

Extinguisher Media
Water spray, dry chemical, carbon dioxide, foam

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	Conditions to Avoid
Unstable	Normally stable
Stable X	

Incompatibility (Materials to Avoid)

Bases. Oxidizers.

Hazardous Decomposition Products

Combustion produces carbon dioxide and carbon monoxide

Hazardous Polymerization

Conditions to Avoid

May Occur
Will Not Occur X

Section VI - Health Hazards

Chemical Listed as Carcinogen or Potential Carcinogen

National Toxicology		IARC Monographs		OSHA Regulated	
Yes		Yes		Yes	
No	X	No	X	No	X

Signs and Symptoms

Exposure

Detectable odor

Acute Overexposure

Irritation of skin, eyes and respiratory tract.

Chronic Overexposure

No data available.

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

Inhalation

Move to fresh air. Get medical attention.

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 and place in acid-resistant, 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.

Section VIII - Special Protection and Control Measures

Respiratory Protection (Specify Type)

NIOSH approved organic vapor air purifying respirator.

Ventilation and local exhaust required.

Eye Protection

Chemical goggles and face shield

Protective Gloves

Impervious chemical gloves

Other Protective Clothing or Equipment

Eye fountain and safety shower

Work Hygiene Practices

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

Transport Information

DOT: Corrosive liquid, Acidic, Organic, N.O.S. (2-Tetrahydrofuroic Acid), 8, UN3265, III

Label: Corrosive

Revision: 11/99 – Changed Company Name

07-03 - Update