

# Material Safety Data Sheet

# Methyl Tetrahydrofuroate

Quick Identifier

OO<sup>®</sup> Methyl Tetrahydrofuroate

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**

For Emergency Medical Information

**Hazard Information Services:**

For Product Information and Other Calls:

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

**Effective: June 15, 2003**

**Supersedes: November 5, 1999**

## Section II - Hazardous Ingredients/Identity Information

Hazardous Component(s) Chemical & Common Name(s)	OSHA PEL	ACGIH TLV	CAS NO.	%
Methyl 2 Tetrahydrofuroate	Not established	Not established	37443-42-8	

Note: This material is not listed in the EPA's Toxic Substances Control Act Inventory. It should be used for experimental purposes only by technically qualified personnel only. Material is listed in the European Union EINECS No. 420-670-1

## Section III - Physical/Chemical Characteristics

Boiling Point	Vapor Density (Air=1)	Specific Gravity (H <sub>2</sub> O = 1)	Vapor Pressure (mm Hg)
169°F, 76°C @ 14 mm Hg 184°F, 85°C @ 774 mm Hg	4.48	1.10	14 @ 169°F, 76°C (190 Pa @ 25°C)

**Solubility in Water**  
Complete, fully miscible

**Reactivity in Water**  
None

**Appearance and Color**  
Clear, colorless mobile liquid  
Pleasant odor

**Melting Point/Freezing Point**  
< 25°C

## Section IV - Fire and Explosion Hazard Data

Flash Point	Method Used	Flammable Limits in Air, % Volume	LEL Lower	UEL Upper
147°F, 64°C	Closed cup		Not available	Not available

**Auto-Ignition temperature**  
311°C

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

### 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

See Section V.

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## Section V - Physical Hazards/Reactivity Data

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### Stability

Unstable  
Stable X

### Conditions to Avoid

Normally stable

### Incompatibility (Materials to Avoid)

Oxidizers. Acids. Bases. Reducing Agents

### Hazardous Decomposition Products

Combustion produces carbon dioxide and carbon monoxide

### Hazardous Polymerization

May Occur  
Will Not Occur X

### Conditions to Avoid

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## Section VI - Health Hazards

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### Chemical Listed as Carcinogen or Potential Carcinogen

#### National Toxicology

Yes  
No X

#### IARC Monographs

Yes  
No X

#### OSHA Regulated

Yes  
No X

### Signs and Symptoms

#### Exposure

Detectable odor

#### Acute Overexposure

Risk of serious eye damage

#### Chronic Overexposure

No data available.

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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. Not a known irritant.

#### 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 cool, dry, well ventilated location. Outside or detached storage is preferred. Separate from acids, oxidizers, and reducing agents.

### **Other Precautions**

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.  
Ventilation and local exhaust required.

### **Eye Protection**

WARNING: Eye contact may cause serious damage  
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 Methyl 2-Tetrahydrofuroate.

### **Transport Information**

DOT: Combustible liquid, N.O.S. (methyl Tetrahydrofuroate), NA 1993, PG III  
Label: None

### **Revision (07/2003): Update**

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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 be taken as a warranty or representation for which Penn Specialty Chemicals, Inc. assumes legal responsibility.

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