

Material Safety Data Sheet

MEF

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-METHYLFURAN

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: November 2, 1999

Section II-Hazardous Ingredients/ Identity Information

Hazardous Component(s) Chemical & Common Names(s)	OSHA PEL	ACGIH TLV	CAS NO.
2-Methylfuran	Not established	Not established	534-22-5

Section III-Physical/Chemical Characteristics

Boiling Point	Vapor Density(Air=1)	Specific Gravity (H ₂ O = 1)	Vapor Pressure (mm Hg)
147°F, 64°C	2.8	0.91	139 @ 68°F, 20°C

Solubility in Water
Slight (0.3 wt. %)

Reactivity in Water
None

Appearance and Color
Clear, colorless to amber, mobile liquid.
Ether-like odor.

Melting Point/Freezing Point
-122°F, - 86°C

Section IV-Fire and Explosion Hazard Data

Flash Point	Method Used	Flammable Limits in Air, % Volume	LEL	LowerUEL	Upper
-22°F, -30°C	TCC		1.9		14.0

Auto-Ignition temperature
842°F, 450° C

Extinguisher Media
Dry chemical, carbon dioxide, foam.
Water may spread fire and be ineffective because of low flash

Special Fire Fighting Procedures

Evacuate contaminated area. Firefighters should have eye protection and wear self-contained breathing apparatus. Fight fire from protected location or maximum possible distance.
Use water spray to cool containers exposed to fire.

Unusual Fire and Explosion Hazards

Vapors are heavier than air and may travel to a source of ignition and flash back. Methylfuran is a dangerous fire and explosion hazard when exposed to ignition sources. See Section V below.

Section V-Physical Hazards/Reactivity Data

Stability	Unstable	Conditions to Avoid	Stable X
Normally stable. Do not distill to dryness; may contain peroxides, which if heated may become explosive.			

Incompatibility (Materials to Avoid)
Oxidizers.

Hazardous Decomposition Products

Combustion produces carbon dioxide and carbon monoxide.

Hazardous Polymerizatn	May Occur	Conditions to Avoid
	Will Not Occur X	

Section VI - Health Hazards

Chemical Listed as Carcinogen or Potential Carcinogen	National Toxicology Yes No X	IARC Monographs Yes No X	OSHA Regulated Yes No X
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Signs and Symptoms

Exposure

Mild odor

Acute Overexposure

Strong odor, headache, nausea, dizziness, disorientation, drowsiness. Irritation of eyes and skin.

Chronic Overexposure

No data available.

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 thoroughly with water.

Ingestion

Get medical help. 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

Outside or detached storage is preferred. Inside storage should be in a standard flammable liquids storage warehouse, room or cabinet. Always ground containers and piping when transferring.

Other Precautions

Store under nitrogen to reduce fire hazard and for product quality. 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

Evacuate unprotected personnel. Shut off sources of ignition. Do not use water. Pick up spill on sand, earth or other non-combustible, absorbent material. Place in covered container for disposal.

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

Dispose of as an ignitable waste in accord with regulations.

Section VIII - Special Protection and Control Measures

Respiratory Protection (*Specify Type*)

NIOSH approved organic vapor air purifying respirator. Explosion proof ventilation and local exhaust required.

Eye Protection

Chemical goggles and face shield.

Protective Gloves

Butyl or Viton rubber.

Other Protective Clothing or Equipment

Eye fountain and safety shower

Work Hygienic Practices

Avoid direct contact with 2-Methylfuran. Wash thoroughly after handling.

Transport Information:

DOT: 2-Methylfuran, 3, UN 2301, PG II

Label: Flammable liquid