

MATERIAL SAFETY DATA SHEET

PAGE: 2 of 4

MATERIAL IDENTIFIER: QO[®] ACETYL FURAN

DATE PREPARED: July 15, 2003

SECTION 4 FIRST AID MEASURES

- EYE CONTACT:** Flush with large volumes of water for at least 15 minutes. Get medical attention.
- SKIN CONTACT:** Remove contaminated clothing. Wash with large volumes of soap and water. Seek medical attention.
- INHALATION:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- INGESTION:** If conscious, give person 1 to 2 glasses of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Get immediate medical attention.
- OTHER EFFECTS:** May cause liver effects.

NOTE TO PHYSICIAN: Treat by observation and supportive measures as indicated by the patient.

SECTION 5 FIRE-FIGHTING MEASURES

FLASHPOINT: 160°F (71°C) Setflash

FLAMMABLE LIMITS (%Volume): UEL=15.2 LEL= 2.1

AUTOIGNITION TEMPERATURE: 698°F (370°C)

GENERAL HAZARD: Combustible liquid. (>82°F) Potentially toxic vapors.

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

EXTINGUISHING MEDIA: Alcohol foam, carbon dioxide, dry chemical.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS: Combustion produces carbon oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

LAND SPILL : Evacuate area and keep personnel upwind. Shut off sources of ignition. Wear suitable protective clothing, gloves and self-contained breathing apparatus. Do not allow to enter public sewers and watercourses. Absorb spillage in suitable inert material. Place in sealable container. Dispose of per local regulations. Ventilate area. Wash spill site after pickup is complete. Collect wash material for disposal.

SECTION 7 STORAGE AND HANDLING

STORAGE AND HANDLING: Store in cool, dry, well ventilated location. Outside or detached storage is preferred. No smoking or eating in handling area. Separate from oxidizers. Keep containers tightly closed. Toxic material. Use appropriate personal protective equipment. Do not get on clothing, skin or in eyes. Use NIOSH/MSHA- approved respirator. Do not breathe mists and vapors. Avoid prolonged and repeated exposure. Do not wear contact lenses when working with this material.

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PAGE: 3 of 4

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SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

WORKPLACE EXPOSURE GUIDELINES: Toxic material. Avoid all direct contact. Local exhaust and general ventilation required to minimize exposure to mists and vapors.

OSHA PEL - Not Established.

ACGIH TLV - Not Established.

PERSONAL PROTECTION: Use NIOSH approved organic vapor air purifying respirator. Use chemical safety goggles for eye protection. Use impervious chemical gloves. Wear protective clothing. Do not wear contact lenses when working with this material. Have eye wash and safety shower available.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC GRAVITY: 1.098

VAPOR PRESSURE: mmHg: 10 at 153 °F (67°C)

SOLUBILITY IN WATER: Insoluble

APPEARANCE: Pale yellow to red, liquid or solid.

VAPOR DENSITY at 1 atm (Air=1): 3.8

FREEZING/MELTING POINT: 82-84 °F (28-29 °C)

BOILING POINT: 343 °F (173 °C)

pH: not available

ODOR: Sweet/Pleasant @ low levels;
Pungent/Irritating @ high levels

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable.

HAZARDOUS POLYMERIZATION: None.

INCOMPATIBLE MATERIALS: oxidizers, strong acids, and strong bases.

CONDITIONS TO AVOID: heat, sparks, flame or other sources of ignition.

HAZARDOUS DECOMPOSITION PRODUCTS: Combustion produces carbon dioxide and carbon monoxide.

SECTION 11 TOXICOLOGICAL INFORMATION

<u>COMPONENT</u>	<u>ACUTE TEST</u>	<u>VALUE</u>	<u>SPECIES</u>
QO® Acetyluran	Oral LD50	33 mg/Kg	Rat
	Dermal LD50	500-2000 mg/Kg	Rat
	Inhalation, LC100	1.8 mg/L/4hr	Rat

ACUTE EFFECTS: Potentially toxic by inhalation. Inhalation screen test gave indications of severe eye and respiratory irritation during exposure (aerosol). Harmful by absorption (dermal screen).

SUBCHRONIC EFFECTS: A literature report indicates acetyluran may effect the liver

CHRONIC EFFECTS: Not available

MUTAGENICITY: Not mutagenic by the Ames test.

SECTION 12 ECOLOGICAL INFORMATION

No data available.

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SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in an approved chemical waste facility in accordance with local, state and national legislation.

SECTION 14 TRANSPORT INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT): Toxic, solid, organic, N.O.S. (2-Acetyluran). 6.1, UN 2811, II
Label: TOXIC

SECTION 15 REGULATORY INFORMATION

INVENTORY LISTINGS: Acetyluran is listed in the TSCA, DSL, and EINECS inventories.

SECTION 16 OTHER INFORMATION

HAZARD RATING SYSTEMS: NFPA Hazard Identification: HEALTH **X**, FLAMMABILITY **X**, REACTIVITY **X**.

REVISION SUMMARY: Revised DOT.

SUPERSEDES ISSUE DATE: 5-30-03

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