MATERIAL SAFETY DATA SHEET
ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name(s):
Toxaphene, PotableWatR™, Toxaphene WasteWatR™

Catalog / Part Number(s):
700, 717, 838, 844, 186004272, 186004395

MSDS Creation Date:
November 22, 2005

MSDS Reference Number:
844-700

Revision Date:
July 19, 2012

SECTION 2: HAZARDS IDENTIFICATION

Flammable liquid. Toxic. Harmful if inhaled. Toxic in contact with skin and if swallowed. The matrix of the standard is methanol which is
classified as dangerous by Directive 199/45/EC. Use only as directed and in accordance with good laboratory practices.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CHEMICAL INGREDIENT NAME</th>
<th>CAS NUMBER</th>
<th>EC NUMBER</th>
<th>% BY WT.</th>
<th>OSHA</th>
<th>ACGIH</th>
<th>HAZARD LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>200-659-6</td>
<td>≤99.9</td>
<td></td>
<td>200 ppm; 250 ppm STEL (skin)</td>
<td></td>
</tr>
</tbody>
</table>

Notes: This standard is a mixture of organic chemicals which are present at levels <0.002% in a matrix of methanol packaged in a 2 ml flame
sealed amber ampoule. Exposure Limits are 8-Hour TWA (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term
Exposure Limit). Other components considered Non-Hazardous under OSHA 1910.1200 (HazCom) as they are not present in concentrations
exceeding 1% (or 0.1% if considered a known or potential carcinogen).

Material Use: Analytical reagent or certified reference material used in laboratories. Uses also include research and development.

SECTION 4: FIRST-AID MEASURES

Inhalation: Remove to fresh air.
Skin Contact: Flush with water.
Eye Contact: Immediately flush with water for a minimum of 15 minutes.
Ingestion: Methanol may be fatal or cause blindness. Seek immediate medical attention.
Note to Physician: Effects may be delayed. Ethanol may inhibit methanol metabolism.
After following first aid measures, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties: Flammable Liquid. Vapor may travel considerable distance to source of ignition and flash back.
Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
Unique Aspects Contributing To a Fire: Methanol burns with a clear, almost invisible flame.
Special Fire Fighting Procedures: Same as for any flammable liquids.
Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Shut off all sources of ignition. Wear appropriate personal protective equipment. Absorb with spill pillow or other absorbent and place in
closed container for later disposal.

SECTION 7: HANDLING AND STORAGE

Keep container tightly closed. Avoid contact with skin and eyes. Store at 2-6℃. Avoid sources of Ignition. Handle in accordance with good
laboratory practices. This product is intended for use only by people trained in the safety and handling of chemicals and laboratory
preparations.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle in accordance with good laboratory practices.
Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved/certified respirator.
Eye Protection: Splash goggles.
Skin Protection: Neoprene or other chemical resistant gloves. Disposable nitrile are acceptable for light intermittent exposure.
Engineering Controls: Work in a fume hood or use general or other local exhaust ventilation to meet Exposure Limits.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**DATA FOR MATRIX (Methanol):**

- **Appearance:** Colorless liquid  
- **Specific Gravity:** 0.7915  
- **Melting Point:** -97.8°C  
- **Physical State:** Liquid  
- **Flash Point:** CC 12°C (53.6°F)  
- **Vapor Pressure:** 12.3 kPa at 20°C  
- **Odor:** Slight  
- **Explosion Limits:** LEL 6% UEL 36.5%  
- **Vapor Density (air=1):** 1.11  
- **Boiling Point:** 64.5°C  
- **Solubility in Water:** Soluble

**SECTION 10: STABILITY AND REACTIVITY**

- **Hazardous Polymerization:** Will Not Occur __X__ May Occur____  
- **Stability:** Stable __X__ Unstable ____

Hazardous Decomposition/Combustion Products: Carbon monoxide, carbon dioxide.

Conditions and Materials to Avoid: Heat, flame, sources of ignition.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- **Primary Route(s) of Exposure Under Normal Use:** Inhalation, eye contact, absorbed through skin.

- **Target Organ(s):** Respiratory system, eyes, kidney, and central nervous system.

- **Acute Effects:** Headache, nausea, dizziness, blurred vision, central nervous system depression, respiratory depression.

  - Methanol: Oral, rat: LD50 =5628 mg/kg; Dermal, rabbit: LD50=5628mg/kg; Inhalation, rat: LC50 = 64,000 ppm/4H

- **Chronic Effects:** Impaired vision, dermatitis.

- **Other Information:** Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California. Methanol is listed as RTK in Massachusetts, Pennsylvania & New Jersey.

**SECTION 12: ECOLOGICAL INFORMATION**

- **Methanol:** Dangerous to aquatic life in high concentrations. Etoxicity in water (LC50): 29400 mg/L 96 hours [Fish (Fathead minnow)].

**SECTION 13: DISPOSAL CONSIDERATIONS**

To determine proper disposal, consult applicable federal, state and local environmental control regulations.

**SECTION 14: TRANSPORT INFORMATION**

- **Shipping Name:** Methanol, Solution  
- **UN Number:** 1230  
- **Shipping/Hazardous Class:** 3  
- **Packing Group:** II  

Shipping regulations are based on combinations of criteria such as quantity, class and packaging according to DOT, IATA and (49) CFR.

Additional information: This product may be shipped as part of chemical kit composed of various compatible dangerous goods for analytical testing purposes. Then this kit would have the following classification: Shipment Name: Chemical Kit Hazard Class 9 UN Number 3316

**SECTION 15: REGULATORY INFORMATION**

- **EU Symbol of Danger:** Flammable (F); Toxic (T)  
- **EU Risk Phrases:** Highly Flammable [R 11]; Toxic by inhalation, in contact with skin and if swallowed [R 23/24/25]; Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed [R 39/23/24/25].

- **U.S. TSCA:** Constitutes listed

- **Canada:** This product has been classified according to the hazard criteria of the CPR and this MSDS contains all the information required by the CPR.

**SECTION 16: OTHER INFORMATION**

- **United States EPA Regulatory Information:**  
  - **SARA 313:** Methanol  
  - **CERCLA RQ:** 5000 lbs  
  - **NFPA Rating:** Health: 1 Flammability: 3 Reactivity: 0  
  - **These ratings are for Methanol**

- **HMIS Rating:** Health: 2 Flammability: 3 Physical Hazard: 0

**NOTE:** NA = Data not available, not established, determined or not pertinent.

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