**MATERIAL SAFETY DATA SHEET**

**ERA** A Waters Company

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**MANUFACTURER:** ERA  **BUSINESS PHONE:** 303-431-8454  
**ADDRESS:** 16341 Table Mountain Parkway  **FAX:** 303-421-0159  
Golden, CO, 80403 U.S.A.  **EMAIL:** info@eraqc.com  
**CHEMICAL EMERGENCY PHONE:** 352-535-5053 (INFOTRAC)

**Product Name(s):** PCBs in Water, PCBs in Water, PriorityPollutnT™, PCBs as Decachlorobiphenyl, PotableWatR™, PCBs, EF PCB Congeners, CW PCB Congeners

**Catalog / Part Number(s):** 708, 734, 734S, 832, 832S, 832SAL1, 839, 860, 861, 862, 863, 864, 865, 866, 906, 1215, 1255, 1333, 1373, 186004279, 186004398, 186004402-186004408

**MSDS Creation Date:** November 28, 2006  **MSDS Reference Number:** 839-708

**Revision Date:** July 19, 2012

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### 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.

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

**EXPOSURE LIMITS**

<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>200 ppm</td>
<td>250 ppm STEL (skin)</td>
<td></td>
</tr>
</tbody>
</table>

Notes: This standard is a mixture of polychlorobiphenyls which are present at levels <0.001% in a matrix of methanol packaged in a 2 ml flame sealed amber ampoule. Several polychlorobiphenyls are animal positive, and human suspect carcinogens. These samples are very low concentrations but should be handled with great care. 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.

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### 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.**

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### 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.

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### 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.

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### SECTION 7: HANDLING AND STORAGE

Keep container tightly closed. Avoid contact with skin and eyes. Store at 2-6°C. 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.

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### 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):

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.7915</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-97.8°C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>CC 12°C (53.6°F)</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>12.3 kPa at 20°C</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight</td>
</tr>
<tr>
<td>Explosion Limits</td>
<td>LEL 6% UEL 36.5%</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>64.5°C</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
</tbody>
</table>

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  NFPA Rating: Health: 1  Flammability: 3  Reactivity: 0
CERCLA RQ: 5000 lbs
HMIS Rating: Health: 2  Flammability: 3  Physical Hazard: 0

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

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