**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

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

**Product Name(s):** Hexavalent Chromium 1000 mg/L  
**Catalog / Part Number(s):** 019, 973, 186004178  
**MSDS Creation Date:** November 22, 2005  
**Revision Date:** July 18, 2012  
**MSDS Reference Number:** 019

**SECTION 2: HAZARDS IDENTIFICATION**

Toxic, Harmful by inhalation. May cause cancer. Risk of cancer depends on duration and level of exposure. The matrix of each standard is a K2Cr2O7/water mixture listed below 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>EXPOSURE LIMITS</th>
<th>EU LABEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium dichromate</td>
<td>7778-50-9</td>
<td>231-906-6</td>
<td>≤0.1</td>
<td>0.1 mg/m3 PEL, 0.05 mg/m3</td>
<td></td>
</tr>
</tbody>
</table>

Notes: This standard is 125 mL of a mixture containing potassium dichromate salt with the balance being ≥99.9% water. Hexavalent chromium is a known human carcinogen. 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: Get medical attention  
After following first aid measures, seek medical attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

Flammable Properties: Not flammable.  
Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.  
Unique Aspects Contributing To a Fire: None.  
Special Fire Fighting Procedures: None.  
Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

Absorb liquid with spill pillow or other absorbent. Ventilate and wash spill site after material pick up is complete. Place wastes into closed containers for proper disposal.

**SECTION 7: HANDLING AND STORAGE**

Handle in accordance with good laboratory practices. Store in a dry well-ventilated place. 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. Wash thoroughly after handling.  
Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved respirator.  
Eye Protection: Safety glasses with side shields or safety goggles  
Skin Protection: Neoprene or other chemical resistant gloves  
Engineering Controls: Not normally needed. If exposure limits are exceeded, work in a fume hood.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>DATA FOR MATRIX:</th>
<th>Specific Gravity: NA</th>
<th>Melting Point: NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Clear to yellow</td>
<td>Physical State:</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
<td>Specific Gravity:</td>
</tr>
<tr>
<td>Odor:</td>
<td>NA</td>
<td>Flash Point:</td>
</tr>
<tr>
<td>pH:</td>
<td>NA</td>
<td>Explosions Limits:</td>
</tr>
<tr>
<td>Explosion Limits:</td>
<td>NA</td>
<td>Vapor Pressure:</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>NA</td>
<td>Vapor Pressure:</td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Physical State:</td>
<td>Liquid</td>
<td>Solubility:</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Soluble</td>
<td>NA</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

Hazardous Polymerization: Will Not Occur __X__  May Occur____
Hazardous Decomposition/Combustion Products: NA
Stability: Stable __X__  Unstable ____
Conditions and Materials to Avoid: Oxidizing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route(s) of Exposure Under Normal Use:  Skin contact: may cause skin irritation or be harmful if absorbed through skin.  Eye contact: may cause eye irritation. Inhalation: harmful if inhaled, may be irritation to mucous membranes and upper respiratory tract. Ingestion: harmful if swallowed.
Target Organ(s): Lungs, kidneys, blood.

Acute Effects:  Harmful by inhalation. May cause sensitization by inhalation and skin contact. Ingestion can cause vomiting.
Potassium dichromate: Oral, child: LDLO=26 mg/kg; Oral, man: LDLO=143 mg/kg; Oral, rat: LD50=25 mg/kg; Skin, rabbit: LD50=14 mg/kg.

Chronic Effects:  Carcinogen; Teratogen; May cause heritable genetic damage. Reproductive hazard; May impair fertility. May cause harm to the unborn child.

Other Information: Chemical Ingredient(s) potassium dichromate is classified as carcinogen(s) by OSHA, IARC (Group 1), NTP, ACGIH (A1), or California. California Prop-65: This product is or contains chemicals known to the state of California to cause cancer.

SECTION 12: ECOLOGICAL INFORMATION

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Avoid release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

Shipment Name/Type: Non-hazardous for transport.
UN Number: NA  Shipping/Hazardous Class: NA  Packing Group: NA
Shipping regulations are based on combinations of criteria such as quantity, class and packaging according to DOT, IATA and (49) CFR.

SECTION 15: REGULATORY INFORMATION

EU Symbol of Danger: Toxic (T) concentration ≤0.1 C ≤0.2%
EU Risk Phrases: May cause cancer [R45]; May cause heritable genetic damage [R46]; Harmful by inhalation [R20].

U.S. TSCA: 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: Yes (0.1% deminimis)
CERCLA RQ: 10 lbs
NFPA Rating: Health: 3  Flammability: 0  Reactivity: 0
HMIS Rating: Health: 3  Flammability: 0  Physical Hazard: 0

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

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