

# MATERIAL SAFETY DATA SHEET

**ERA** A Waters Company

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION


**MANUFACTURER:** ERA (Environmental Resource Associates) **BUSINESS PHONE:** 303-431-8454  
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Arvada, CO, 80002 U.S.A. **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:** September 29, 2009 **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

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% BY WT.	EXPOSURE LIMITS		EU LABEL
				OSHA	ACGIH	HAZARD LABEL
Potassium dichromate	7778-50-9	231-906-6	≤0.1	0.1 mg/m3 PEL	0.05 mg/m3	

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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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### DATA FOR MATRIX:

Appearance:	Clear to yellow	Specific Gravity:	NA	Melting Point:	NA
Physical State:	Liquid	Flash Point:	NA	Vapor Pressure:	NA
Odor:	NA	Explosion Limits:	NA	Vapor Density (air=1):	NA
pH:	NA	Boiling Point:	NA	Solubility in Water:	Soluble

## SECTION 10: STABILITY AND REACTIVITY

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

## SECTION 11: TOXICOLOGICAL INFORMATION

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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

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

## SECTION 13: DISPOSAL CONSIDERATIONS

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

## SECTION 14: TRANSPORT INFORMATION

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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

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EU Symbol of Danger: Toxic (T) concentration  $\leq 0.1$  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

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United States EPA Regulatory Information:	NFPA Rating:	Health: 3	Flammability: 0	Reactivity: 0
SARA 313: Yes (0.1% de minimis)	HMIS Rating:	Health: 3	Flammability: 0	Physical Hazard: 0
CERCLA RQ: 10 lbs				

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

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