# MATERIAL SAFETY DATA SHEET

# **ERA** A Waters Company

#### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER: ERA BUSINESS PHONE: 303-431-8454
ADDRESS: 16341 Table Mountain Parkway FAX: 303-421-0159 EMAIL: info@eraqc.com

Golden, CO, 80403 U.S.A. CHEMICAL EMERGENCY PHONE: 352-535-5053 (INFOTRAC)

Product Name(s): ERA Cal 1000 mg/L Standards

Aluminum 1000 mg/L, Antimony 1000 mg/L, Arsenic 1000 mg/L, Barium 1000 mg/L, Beryllium 1000 mg/L, Bismuth 1000 mg/L, Boron 1000 mg/L, Cadmium 1000 mg/L, Cerium 1000 mg/L, Total Chromium 1000 mg/L, Cobalt 1000 mg/L, Copper 1000 mg/L, Holmium 1000 mg/L, Indium 1000 mg/L, Iron 1000 mg/L, Lead 1000 mg/L, Lithium 1000 mg/L, Magnesium 1000 mg/L, Manganese 1000 mg/L, Mercury 1000 mg/L, Molydenum 1000 mg/L, Nickel 1000 mg/L, Phosphorus 1000 mg/L, Potassium 1000 mg/L, Scandium 1000 mg/L, Selenium 1000 mg/L, Silicon 1000 mg/L, Silver 1000 mg/L, Sodium 1000 mg/L, Strontium 1000 mg/L, Terbium 1000 mg/L, Thallium 1000 mg/L,

Vanadium 1000 mg/L, Yttrium 1000 mg/L, Zinc 1000 mg/L

Catalog / Part Number(s): 011, 012, 013, 014, 015, 016, 017, 018, 020, 021, 022, 023, 024, 025, 026, 027, 028, 029, 030, 031, 032, 033, 034, 035,

036, 039, 040, 063, K01, K02, K03, K04, K06, K07, K08, K09, 186004170, 186004171, 186004172, 186004173, 186004174, 186004175, 186004176, 186004177, 186004179, 186004180, 186004181, 186004182, 186004183, 186004184, 186004185, 186004186, 186004187, 186004188, 186004189, 186004190, 186004191, 186004192, 186004193, 186004194, 186004195, 186004198, 186004199, 186004200, 186004203, 186004204, 186004205,

186004206, 186004208, 186004209, 186004210, 186004211

DATE CREATED: August 19, 2008 MSDS REFERENCE NUMBER: 039

DATE REVISED: July 19, 2012

#### **SECTION 2: HAZARDS IDENTIFICATION**

Corrosive. Causes burns. Irritant. Irritating to eyes and skin. The matrix of the standard is a nitric acid/water mixture 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

				EXPOSURE LIMITS		EU LABEL
CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% BY WT.	OSHA	ACGIH	HAZARD LABEL
Nitric Acid (≤70%)	7697-37-2	231-714-2	≤0.8	2 ppm	2 ppm; 4 ppm (STEL)	×

Notes: This standard contains a mixture of metallic compounds/salts at levels <1% in a nitric acid (≤0.8) and water (≥99.2%) mixture packaged in 125-500 mL containers. 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: If swallowed, wash out mouth with water provided person is conscious. Seek immediate medical attention.

Note to Physician: Treat symptomatically and supportively.

After following first aid measures, seek medical attention.

## **SECTION 5: FIRE-FIGHTING MEASURES**

Flammable Properties: Not combustible. Use extinguishing media appropriate to surrounding fire conditions.

Extinguishing Media: Water spray, dry chemical, carbon dioxide or appropriate foam.

Unique Aspects Contributing To a Fire: NA

Special Fire Fighting Procedures: Avoid contact with oxidizable substances.

Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Ventilate area of leak or spill. Wear appropriate personal protective equipment. Absorb with spill pillow or other neutralizing absorbent and place in closed container for later disposal.

MSDS Reference #: 039 PAGE 1 of 2

# MATERIAL SAFETY DATA SHEET

# **ERA** A Waters Company

#### **SECTION 7: HANDLING AND STORAGE**

Keep container tightly closed. Store in a cool, dry, well-ventilated area. 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. 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. Disposable nitrile are acceptable for light intermittent exposure.

Engineering Controls: Not normally needed. If exposure limits are exceeded, work in a fume hood.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

DATA FOR MATRIX:

Appearance: Specific Gravity: **Melting Point:** NA Liquid NA Vapor Pressure: Physical State: Flash Point: Liquid NA NA NΔ Vapor Density (air=1): NΑ Odor: NΑ **Explosion Limits: Boiling Point:** Solubility in Water: NA Soluble

#### **SECTION 10: STABILITY AND REACTIVITY**

Hazardous Polymerization Will Not Occur \_\_X\_ May Occur\_\_\_ Stability: Stable \_\_X\_ Unstable \_\_

Hazardous Decomposition/Combustion Products: When heated to decomposition, emits toxic nitrogen oxide fumes and hydrogen nitrate.

Conditions and Materials to Avoid: Heat, oxidizing agents, strong bases, carbides, hydrogen sulfide and combustible organics.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Primary Route(s) of Exposure Under Normal Use: Inhalation, skin contact, eyes.

Target Organ(s): Cardiovascular and respiratory system, teeth & lungs.

Acute Effects: Eye and skin irritation. Damage to digestive and respiratory tract. Headache, nausea, dizziness, blurred vision, respiratory depression.

Nitric Acid: Oral, rat: LD50 =>90 mL/kg; Inhalation, rat: LC50 = 67 ppm (NO2)/4H

Chronic Effects: Dermatitis.

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

# **SECTION 12: ECOLOGICAL INFORMATION**

No information available on this preparation or mixture. By complying with sections 6 & 7 there will be no 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: Nitric acid

UN Number: 2031 Shipping/Hazardous Class: 8 Packing Group: II

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: Irritant (Xi) concentration is <5% EU Risk Phrases: Irritating to eyes and skin [R36/38].

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: NFPA Rating: Health: 2 Flammability: 0 Reactivity: 0

SARA 313: Yes
CERCLA RQ: 1000 lbs HMIS Rating: Health: 2 Flammability: 0 Physical Hazard: 0

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

DISCLAIMER: The information contained herein has been compiled from data presented in various technical sources believed to be accurate. This information is intended to be used only as a guide and does not purport to be complete. ERA makes no warranties and assumes no liability in connection with the use of this information. It is the user's responsibility to determine the suitability of this information and to assure the adoption of necessary precautions.

MSDS Reference #: 039 PAGE 2 of 2