

MATERIAL SAFETY DATA SHEET

ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name(s): **Waters API Test Solution Kit**

Catalog / Part Number(s): **700000889**

MSDS Creation Date: January 21, 2009







Revision Date: April 15, 2010

MSDS Reference Number: 700000889

SECTION 2: HAZARDS IDENTIFICATION

Flammable liquid. Harmful. Irritant. Toxic. Harmful in contact with skin and if swallowed. The matrix of each standard is a solvent/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
Acetonitrile (Std 1,4)	75-05-8	200-835-2	≤50.0	60 ppm	40 ppm; 60 ppm STEL	 
Isopropanol (Std 2)	67-63-0	200-661-7	≤50.0	500 ppm; 400 STEL	400 ppm; 200 STEL	 
Myoglobins, horse (Std 3)	100684-32-0	309-705-0	100	NA	NA	NA
Methanol (Std 5-8)	67-56-1	200-659-6	≤50.0	200 ppm	200 ppm; 250 ppm STEL (skin)	 

Notes: These standards are a mixture of organic chemicals which are present at levels <0.3% in a matrix of the solvent % listed above with the remainder being water; packaged in small 10-15 mL bottles/ampoules. 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: Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical attention.

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. Ensure adequate ventilation. 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. Store in a flammable storage cabinet. 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.

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

Appearance: Liquid (1,2, 4-8)
Physical State: Solid (3)
Odor: Slight
pH: NA

Specific Gravity: NA
Flash Point: 3°C 37°F (Acetonitrile matrix)
Explosion Limits: NA
Boiling Point: 82°C 180°F (Acetonitrile matrix)

Melting Point: NA
Vapor Pressure: NA
Vapor Density (air=1): NA
Solubility in Water: Soluble

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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, liver, kidney, blood, central nervous system.

Acute Effects: Headache, nausea, dizziness, blurred vision, central nervous system depression, respiratory depression.
Acetonitrile: Oral, rat: LD50 =2460 mg/kg; Oral, mouse: LD50 =269 mg/kg; Dermal, rabbit: LD50 = 1250 mg/kg.
Isopropanol: Oral, rat: LD50 =5045 mg/kg; Oral, mouse: LD50=3600 mg/kg.
Methanol: Oral, rat: LD50 =5628 mg/kg; Inhalation, rat: LC50 = 64,000 ppm/4H.

Chronic Effects: Effect on the nervous system. Impaired vision, dermatitis. May be toxic to reproductive system male/female.

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

SECTION 12: ECOLOGICAL INFORMATION

Acetonitrile: Dangerous to aquatic life in high concentrations. Etotoxicity in water (LC50): 1020 mg/L 96 hours [Fish (Fathead minnow)]. 1850 mg/L 96 hours [Fish (bluegill)]. Isopropanol: Etotoxicity in water (LC50): 100000 mg/L 96 hours [Fish (Fathead minnow)]. 64000 mg/L 96 hours [Fish (Fathead minnow)]. Methanol: Dangerous to aquatic life in high concentrations. Etotoxicity 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: Flammable Liquids, n.o.s. (Acetonitrile, Isopropanol, Methanol)
UN Number: 1993 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. Overpack may be required.

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); Harmful (Xn); Toxic (T); Irritant (Xi)
EU Risk Phrases: Highly Flammable [R 11]; Harmful by inhalation, in contact with skin and if swallowed [R 20/21/22]; Irritating to eyes [R 36]. 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]. Irritating to eyes [R 36]; Vapors may cause drowsiness & dizziness [R67].

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:	NFPA Rating:	Health: 2	Flammability: 3	Reactivity: 0
SARA 313: Acetonitrile & Methanol	These ratings are for Acetonitrile			
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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