

MATERIAL SAFETY DATA SHEET

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ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name(s): **Waters Xevo TQ Sample Kit**

Catalog / Part Number(s): **700004045**

MSDS Creation Date: February 4, 2009







Revision Date: April 22, 2010

MSDS Reference Number: 700004045

SECTION 2: HAZARDS IDENTIFICATION

Flammable liquid. Harmful. Irritant. Toxic. Corrosive. Dangerous for the environment. Toxic in contact with skin and if swallowed. Standards #5 & #6 contain a class 2 (reasonably anticipated) carcinogen as rated by NTP. Standard #5 contains a Group 2A (probable) carcinogen as rated by IARC. 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
Methanol (Std 1)	67-56-1	200-659-6	≤90.0	200 ppm	200 ppm; 250 ppm STEL (skin)	
Acetonitrile (Std 2)	75-05-8	200-835-2	≤50.0	60 ppm	40 ppm; 60 ppm STEL	
Isopropanol (Std 3)	67-63-0	200-661-7	≤50.0	500 ppm; 400 STEL	400 ppm; 200 STEL	
17-a-hydroxyprogesterone (Std 4)	68-96-2	200-699-4	100	NA	NA	
Chloramphenicol (Std 5)	56-75-7	200-287-4	100	NA	NA	NA
Reserpine (Std 6)	50-55-5	200-047-9	100	NA	NA	NA
Sulfadimethoxine (Std 7)	122-11-2	204-523-7	100	NA	NA	NA
[Glu1]-Fibrinopeptide (Std 8)	103213-49-6	NA	100	NA	NA	NA
Ammonium hydroxide (Std 9) 3 mL	1336-21-6	215-647-6	≥57.6-≤61.7	NA	NA	
Formic acid (Std 10) 1 mL	64-18-6	200-579-1	≥98.0	9 mg/m3	10 ppm	

Notes: The standards are a mixture of organic chemicals present at levels <0.3% in a matrix of the solvent % listed above with the remainder being water; packaged in small 1-25 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: 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 containers tightly closed. Avoid contact with skin and eyes. Store at approximately 5°C (4±2°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.

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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid (1-3,9,10)	Specific Gravity:	NA	Melting Point:	NA
Physical State:	Solid (4-8)	Flash Point:	3°C 37°F (Acetonitrile matrix)	Vapor Pressure:	NA
Odor:	Slight	Explosion Limits:	NA	Vapor Density (air=1):	NA
pH:	NA	Boiling Point:	82°C 180°F (Acetonitrile matrix)	Solubility in Water:	Soluble

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. Oxidizing agents, acids.

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. Chloramphenicol has a delayed effect and is a probable carcinogen.

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

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.

Chloramphenicol: Oral, rat: LD50 =2500 mg/kg; Genotoxicity in vitro – rat-liver. Laboratory experiments have shown mutagenic effects.

Reserpine: Oral, rat: LD50 =420 mg/kg; Behavioral: Antipsychotic.

Sulfadimethoxine: Oral, mouse: LD50 =3200 mg/kg Ammonium hydroxide: Oral, rat: LD50=350 mg/kg

Formic Acid: Oral, rat: LD50 =1100mg/kg; Oral, mouse: LD50=70 mg/kg.

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

Other Information: The chemical ingredient(s) classified as a carcinogen by OSHA, IARC, NTP, ACGIH, or California are Reserpine CAS# 50-55-5 (NTP class 2) and Chloramphenicol CAS# 56-75-7 (IARC Group 2A; NTP class 2). Chloramphenicol, Reserpine and Formic acid are listed as RTK in Massachusetts, Pennsylvania & New Jersey. Methanol, Acetonitrile and Isopropanol are listed as RTK in Massachusetts, Pennsylvania & New Jersey. **WARNING:** This product contains a chemical known in the State of California to cause cancer Chloramphenicol CAS# 56-75-7. Other chemical Ingredient(s) are not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

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. Aquatic toxicity rating: TLM 96>1000 ppm. Will biodegrade in soil and water very rapidly. Estimated half-life in ambient atmosphere is 17.8 days. Bioconcentration factor for fish (golden ide) < 10. Chloramphenicol: Toxicity to daphnia (EC50): 345 mg/L/48H (water flea). Ammonium hydroxide: Etotoxicity in water (LC50): 32 mg/l 50 hrs [Daphnia]. 3.5 mg/L3 days [fish]. Formic Acid: Etotoxicity in water (LC50): 34 ppm 48 hrs [Daphnia]. 5000 mg/L 24 hrs [Bluegill].

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. (Methanol, Acetonitrile, Isopropanol)

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); Irritant (Xi); Toxic (T); Corrosive (C); Dangerous for Environment (N)

EU Risk Phrases: Highly Flammable [R 11]; Harmful by inhalation, in contact with skin and if swallowed [R 20/21/22]; Causes severe burns [R35]; Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed [R 39/23/24/25]. Irritating to eyes and skin [R 36/37/38]. Very toxic to aquatic organisms [R50]; Vapors may cause drowsiness and 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: 1
SARA 313: Methanol, Acetonitrile, Isopropanol	These ratings are for Acetonitrile			
CERCLA RQ: Methanol & Acetonitrile 5000 lbs	HMIS Rating:	Health: 2	Flammability: 3	Physical Hazard: 1

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.