

SAFETY DATA SHEET

ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name(s): Low-Level PAHs, PriorityPollutn™, PAHs for HPLC, PriorityPollutn™, PAHs – GC/GCMS, PAH's EF
Catalog / Part Number(s): 715, 836, 836AL1-4, 1214, 1254, 4880, 4880AL1-4, 4882, 186004393
Product Use: For laboratory use only. Certified reference material or analytical test standard used in laboratories.
SDS Creation Date: November 22, 2005
Revision Date: May 13, 2014
SDS Reference Number: 4880-4882

SECTION 2: HAZARDS IDENTIFICATION

Classification & labeling according to GHS, OSHA and Table 3.1 Annex VI of regulation 1272/2008/EU as amended. GHS/OSHA HCS
Classification: Hazard Class and Category Code: Flammable liquids 2; Acute toxicity, Oral 3; Acute toxicity, Inhalation 3; Acute toxicity, Dermal 3, Specific target organ toxicity - single exposure 1.



GHS/CLP/OSHA Label Elements – **Pictogram(s):** **Signal Word:** Danger

H225 Highly flammable liquid and vapor; H301 + H311 Toxic if swallowed or in contact with skin; H370 Causes damage to organs.

Precautionary statements: P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking; P233 Keep container tightly closed; P240 Ground/bond container and receiving equipment; P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment; P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge; P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray; P264 Wash skin thoroughly after handling; P270 Do not eat, drink or smoke when using this product; P271 Use only outdoors or in a well-ventilated area; P280 Wear protective gloves/ protective clothing/ eye protection/ face protection; P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician; P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower; P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing; P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician; P322 Specific measures (see supplemental first aid instructions on this label); P330 Rinse mouth; P361 Remove/ Take off immediately all contaminated clothing; P363 Wash contaminated clothing before reuse; P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction; P403 + P233 Store in a well-ventilated place. Keep container tightly closed; P403 + P235 Store in a well-ventilated place. Keep cool; P501 Dispose of contents/ container to an approved waste disposal plant.

The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with good lab practices. For laboratory use only; not for drug, household or other uses.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% BY WT.	EXPOSURE LIMITS		
				OSHA	ACGIH	EU IOELV
Methanol (MEOH)	67-56-1	200-659-6	90 - 100	200 ppm 260 mg/m3; 250 ppm 325 mg/m3 STEL	200 ppm; 250 ppm STEL	260 mg/m3; 200 ppm (skin)

Notes: The low concentration levels of the components in this analytical standard have been determined as non hazardous. Using the GHS bridging principles, Methanol is the hazardous classifying component of the mixture. All other constituents considered Non-Hazardous under OSHA 1910.1200 (HazCom) as they contain no known or potential carcinogens in excess of 0.1% of the composition nor any other hazardous chemical in excess of 1% of the composition. Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

SECTION 4: FIRST-AID MEASURES

Inhalation: Remove to fresh air.

Skin Contact: Wash off with soap & water.

Eye Contact: Immediately flush with water for a minimum of 15 minutes.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable Properties: Flammable liquids in the presence of a source of ignition when the temperature is above the flash point. Keep away from sparks/open flame.

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

Unique Aspects Contributing To a Fire: Solvents may burn 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.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Due to small quantities involved, spills or leaks should not pose a significant problem. Absorb with spill pillow or other absorbent and place in closed container for proper disposal.

SECTION 7: HANDLING AND STORAGE

Keep container tightly closed. Store in refrigerator at 2-6°. 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: Safety glasses with side shields or Splash goggles. Skin Protection: Neoprene or other chemical resistant gloves.

Disposable nitrile is acceptable for light intermittent exposure.

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

(Literature based data for 100% w/w Methanol)

Appearance:	Clear	Specific Gravity:	0.79 g/mL at 20°C 68°F	Melting Point:	-98°C -144°F
Physical State:	Liquid	Flash Point:	9.7°C 49.5°F	Vapor Pressure:	130 hPa 97.7 mmHg at 20 °C 68°F
Odor:	Pungent	Explosion Limits:	LEL 6% UEL 36%	Vapor Density (air=1):	1.11
pH:	NA	Boiling Point:	64-65°C 147.2-149°F	Solubility in Water:	Soluble

SECTION 10: STABILITY AND REACTIVITY

Hazardous Polymerization Will Not Occur May Occur Stability: Stable Unstable

Hazardous Decomposition/Combustion Products: Carbon oxides.

Conditions and Materials to Avoid: Heat, flame, sources of ignition. Oxidizing agents, Reducing agents, Acids, Alkali metals, Acid Anhydrides, Acid chlorides.

SECTION 11: TOXICOLOGICAL INFORMATION

Primary Route(s) of Exposure under Normal Use: Inhalation, Skin absorption, Skin contact.

Target Organ(s): Central nervous system, liver, kidney, eyes.

Acute Effects: Headache, Drowsiness, dizziness, irritating to eyes, skin, mucous membranes, respiratory tract.

Chronic Effects: Methyl alcohol may be fatal or cause blindness if swallowed. Effects due to ingestion may include, Headache, Dizziness, Drowsiness, metabolic acidosis, Coma, Seizures. Symptoms may be delayed. Damage of the Liver, Kidney; Central nervous system breathing difficulties; Stomach irregularities.

Acute Toxicity: MEOH: LDLO Oral, human = 143 mg/kg; LD50 Oral, rat = 1187-2769 mg/kg; LC50 Inhalation, rat 4h= 128.2 mg/L; LD50 Dermal, rabbit = 17,100 mg/kg.

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

WARNING: This product contains a chemical (Methanol) known to the State of California (Prop 65) to cause birth defects or other reproductive harm.

SECTION 12: ECOLOGICAL INFORMATION

Methanol aquatic toxicity rating: LC50 (bluegill) – 15,400 mg/L - 96 h; EC50 (water flea) – >10,000 mg/L - 48 h; EC50 (freshwater algae) – 22,000 mg/L – 96 h. Will biodegrade in soil and water very rapidly. Bioaccumulation (carp) – 72 d at 20°C = 5 mg/L. Bioconcentration factor (carp) 1.0. Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Consult applicable local, state or national regulations for proper disposal.

SECTION 14: TRANSPORT INFORMATION

DOT/IATA/IMDG: Shipping Name: Methanol

UN Number: 1230

Shipping/Hazardous Class: 3 (6.1)

Packing Group: II

Shipping regulations are based on combinations of criteria such as Excepted Quantity, Class and packaging according to DOT, IATA and (49) CFR.

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SECTION 15: REGULATORY INFORMATION

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR. Methanol is listed as a Right to Know component in Massachusetts, Pennsylvania & New Jersey.

SECTION 16: OTHER INFORMATION

United States EPA Regulatory Information:

SARA 313: Methanol

CERCLA RQ: 5000 lbs

NFPA/HMIS Rating: (4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal)

Health: 2 Flammability: 3 Reactivity: 0 Physical: 0

NOTE: For Laboratory use only. Not for drug, household or other uses.

NA = Data not available, not established, not 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/Waters 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.