MATERIAL SAFETY DATA SHEET

ERA A Waters Company

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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Product Name(s): **HEM / SGT-HEM**
Catalog / Part Number(s): **489, 489AL1-4, 519, 186004359**
MSDS Creation Date: November 28, 2006
Revision Date: July 19, 2012
MSDS Reference Number: 489-519

SECTION 2: HAZARDS IDENTIFICATION

Flammable liquid. Irritant. The matrix of the standard is an acetone 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
Hexadecane	544-76-3	208-878-9	<2.5	NA	NA	NA
Stearic Acid	57-11-4	200-313-4	<2.5	NA	NA	NA
Acetone	67-64-1	200-662-2	≤95.0	1000 ppm; 1000 ppm STEL	500 ppm; 750 STEL	

Notes: This standard is a mixture of hexadecane and stearic acid which are present at levels <2.5% each in a matrix of acetone packaged in 5-10 ml flame sealed ampules. 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.
Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
Unique Aspects Contributing To a Fire: NA
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. Avoid contact with skin and eyes. Store at 2-6°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. Disposable nitrile are 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

DATA FOR MATRIX (Data is forAcetone):

Appearance:	Colorless liquid	Specific Gravity:	0.791	Melting Point:	-94℃
Physical State:	Liquid	Flash Point:	CC -17.0℃ (1.4℉)	Vapor Pressure:	533 hPa at 39.5℃
Odor:	Slight	Explosion Limits:	LEL 2% UEL 13%	Vapor Density (air=1):	NA
pH:	NA	Boiling Point:	56℃	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.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Target Organ(s): Liver, kidney.

Acute Effects: Altered sleep, drowiness, dizziness, respiratory tract irritation, skin irritation, eye irritation, skin drying and cracking.
Stearic acid: Oral, rat: LD50=>2000 mg/kg; Dermal, rabbit: LD50=>5000 mg/kg
Acetone: Oral, rat: LD50 =5,800 mg/kg; Inhalation, rat: LC50 = 50,100 mg/m3/8H

Chronic Effects: Dermititis.

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

SECTION 12: ECOLOGICAL INFORMATION

Acetone: Ecotoxicity in water (LC50): 5540 mg/L 96 hours [Fish (Rainbow trout)]; (EC50): 13,500 mg/L 48 hours [Dapnia (Water flea)].

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

Shipping Name: Acetone
UN Number: 1090 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.

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); Irritant (Xi)
EU Risk Phrases: Highly Flammable [R 11]; Irritating to eyes. [R 36]; Repeated exposure may cause kin dryness or cracking [R66]; Vapors may cause drowsiness and dizziness [R 67].

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:	NA	These ratings are for Acetone			
CERCLA RQ:	Acetone 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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