MATERIAL SAFETY DATA SHEET

Waters Analytical Standards & Reagents

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER: Waters Analytical Standards & Reagents
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Product Name(s): Waters GC PQ Solution
Catalog / Part Number(s): 700001892
Product Use: For laboratory use only. Analytical reagent or certified reference material used in laboratories.
MSDS Creation Date: December 4, 2007 **Revision Date:** June 14, 2013 **MSDS Reference Number:** 700001892

SECTION 2: HAZARDS IDENTIFICATION

Harmful. Harmful if swallowed, inhaled or absorbed through skin. Suspect cancer hazard. May cause cancer. Risk of cancer depends on level and duration of exposure. The matrix of the standard is a methylene chloride 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
Methylene chloride (dichloromethane)	75-09-2	200-838-9	90-100	25 ppm; 15 ppm STEL	50 ppm; A3 suspected carcinogen	

Notes: This standard is a mixture of organic chemicals which are present at levels <0.08% in a matrix of methylene chloride packaged in 10 ml flame sealed amber 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. If not breathing give artificial respiration and consult a physician.
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: Not flammable.
Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
Unique Aspects Contributing To a Fire: None.
Special Fire Fighting Procedures: Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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

SECTION 7: HANDLING AND STORAGE

Keep container tightly closed. Store in a flammable storage cabinet. Avoid sources of ignition. Avoid contact with skin and eyes. 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 for Methylene chloride):

Appearance:	Colorless liquid	Specific Gravity:	1.318	Melting Point:	-97°C (143F)
Physical State:	Liquid	Flash Point:	NA	Vapor Pressure:	46.5 kPa at 20°C
Odor:	Slight	Explosion Limits:	LEL 12% UEL 23%	Vapor Density (air=1):	2.9
pH:	NA	Boiling Point:	39.8°C (104F)	Solubility in Water:	Not Soluble

SECTION 10: STABILITY AND REACTIVITY

Hazardous Polymerization Will Not Occur __X__ May Occur____ Stability: Stable __X__ Unstable ____

Hazardous Decomposition/Combustion Products: Emits highly toxic fumes of phosgene when heated to decomposition.
Conditions and Materials to Avoid: Strong oxidizers, caustics, moisture, heat, flame, ignition sources, plastics, rubber and coatings.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Target Organ(s): Respiratory system, eyes, skin, heart, central nervous system. May cause cancer.

Acute Effects: Eye irritation & inflammation, central nervous system depression, respiratory depression, strong narcotic effect.
Oral, rat: LD50 =1600 mg/kg; Inhalation, rat: LC50 =52 g/m3 mg/kg; investigated as a tumorigen, mutagen, reproductive effector.
Reproductive toxicity: methylene chloride has been linked to spontaneous abortions in humans.

Chronic Effects: May be toxic to reproductive system male/female

Other Information: WARNING: Chemical ingredient methylene chloride CAS# 75-09-2 is classified as carcinogen by OSHA (classified 2B) possible for human, IARC (2B), NTP (anticipated), ACGIH, and California prop. 65. Methylene chloride CAS# 75-09-2 is a chemical known in the state of California to cause cancer and is listed as a RTK component in Massachusetts, Pennsylvania and New Jersey.

SECTION 12: ECOLOGICAL INFORMATION

The LC50/96 hour values for fish are over 100 mg/L. This material is not expected to be toxic to aquatic life. Material may leach into groundwater; when released into water it may biodegrade to a moderate extent.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

Shipping Name: Dichloromethane (methylene chloride)
UN Number: 1593 Shipping/Hazardous Class: 6.1 Packing Group: III
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: Harmful (Xn)
EU Risk Phrases: Carcinogen; Cat 3 Limited evidence of a carcinogenic effect [R40]

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:
SARA 313: Methylene chloride
CERCLA RQ: 1000 lbs

NFPA Rating: Health: 2 Flammability: 1 Reactivity: 0
(4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal)
HMIS Rating: Health: 2 Flammability: 1 Physical Hazard: 0
These ratings are for Methylene chloride

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. 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.