



Material Safety Data Sheet

Issue Date: 07-JUL-2008
Supersedes: 05-MAY-2008

Potassium Hydrogen Phthalate Solutions

1 Identification of Product and Company

Identification of substance or preparation

Potassium Hydrogen Phthalate Solutions

Synonyms: 1,2-benzenedicarboxylic acid monopotassium salt solution; potassium acid phthalate solution; potassium salt of phthalic acid solution; potassium biphtalate solution

Product Application

GE Analytical Instruments Part Number	Product Name
STD 30001	Total Organic Carbon (TOC) Calibration Standard, 25 mg C/L as potassium hydrogen phthalate (KHP)
STD 91200, STD 91300, STD 91400, STD 91500, STD 91600	Total Organic Carbon (TOC) Calibration Standard, 1, 5, 10, 25, 50 mg C/L as potassium hydrogen phthalate (KHP)
STD 68110, STD 68150, STD 68210, STD 68225, STD 68250, STD 68310, STD 68350, STD 68410, STD 68450, STD 68520	Total Organic Carbon (TOC) Calibration Standard, 1, 5, 10, 25, 50, 100, 500, 1,000, 5,000, 20,000 mg C/L as potassium hydrogen phthalate (KHP)
STD 93100	Total Organic Carbon (TOC) Calibration Standard, 4 mg C/L as potassium hydrogen phthalate (KHP)
STD 96025	Total Organic Carbon (TOC) Calibration Standard, 250 ug C/L as potassium hydrogen phthalate (KHP)

Company/Undertaking Identification

GE Analytical Instruments Inc
6060 Spine Road
Boulder, CO 80301
T303-444-2009

Emergency Telephone

1-800-535-5053 INFOTRAC (North America)
Outside of N.A., call collect: 1-352-323-3500
GE (800) 877-1940

Prepared by EHS Manager: 720-622-0153

2 Composition / Information On Ingredients

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

Compound Name	CASRN	NIOSH RTECS	Concentration	OSHA PEL	ACGIH TLV	NIOSH REL	DFG MAK
Water	7732-18-5	ZC0110000	95.8 - 99.8%	None	None	None	None
Potassium acid phthalate	877-24-7	1000497PP	<0.02 - 4.2%	None	None	None	None

HAZARDOUS INGREDIENTS: This product is not hazardous as defined by OSHA regulations.



3 Hazards Identification

EMERGENCY OVERVIEW

CAUTION

The material is essentially a hypotonic water solution. Therefore, some irritation may be experienced if the material is splashed in the eyes. No acute health effects are expected from this product. Chronic exposure to this material on the hands may lead to dry skin.

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS: Prolonged skin contact can wash away oils from the skin, leaving the skin dry and prone to cracking.

ACUTE EYE EFFECTS: Eye contact may produce notable irritation. Due to the hypotonicity, the water solution will cause the cells of the conjunctiva and palpebral epithelium to rupture (similar to that experienced when distilled water contacts the eyes)

ACUTE RESPIRATORY EFFECTS: Gross exposure to massive concentrations is not expected to result in any problems

INGESTION EFFECTS: Large quantities of ingested material are expected to mimic the effects of swallowing large quantities of distilled water

MEDICAL CONDITIONS AGGRAVATED: Not known.

SYMPTOMS OF EXPOSURE: Not applicable.

4 First Aid Measures

SKIN CONTACT: Wash contacted skin with a mild detergent and dry.

EYE CONTACT: Upon contact with the eyes, allow the normal tearing action of the eye to flush the material from the eyes.

INGESTION: Large quantities of this material are expected to mimic the effects of swallowing distilled water. In the event of ingestion, recommend that the person drink at least eight ounces of water.

NOTES TO PHYSICIANS: No special instructions

5 Fire Fighting Measures

Flash Point	Ignition Temperature	L.E.L.	U.E.L.
Will not flash	Will not flash	Will not support an explosion	N/A

FIRE FIGHTING INSTRUCTIONS: This product is non-combustible. The flammability of the product is considered to be non-existent.

EXTINGUISHING MEDIA: This product is non-combustible. This material will extinguish a flame. There are no special precautions required for fire fighting.

HAZARDOUS DECOMPOSITION PRODUCTS: Not significant



Material Safety Data Sheet

6 Accidental Release Measures

PROTECTION AND SPILL CONTAINMENT: In the event that the product is spilled, the resulting area may be slippery. The mixture can be permitted to run to a sanitary sewer (unless restricted by local codes). The spilled liquid should be mopped up immediately to avoid slips and falls.

DISPOSAL INSTRUCTIONS: The waste of this material is not expected to be a RCRA waste

7 Handling & Storage

HANDLING: There are no recommended special handling precautions

STORAGE: General non-flammable, non-hazardous chemical storage is adequate

8 Exposure Controls / Personal Protection

EXPOSURE LIMITS: This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS: Standard household ventilation is expected to be adequate to control exposures.

PERSONAL PROTECTIVE EQUIPMENT: No special precautions are required.

RESPIRATORY PROTECTION: When used according to the manufacturer's instructions, no reasonably anticipated exposure could warrant the use of respiratory protection

SKIN PROTECTION: No special precautions are required.

EYE PROTECTION: Safety glasses or goggles with side shields may be used by people who would be equally concerned about using household liquid detergents.

9 Physical & Chemical Properties

Characteristic	Description
Boiling point (°C):	Approximately 100°C @ 1 Torr
Specific gravity:	Approximately 1.0 @ 4°C
Melting point:	0°C
Estimated vapor density:	1
Estimated vapor pressure:	Approximately 18.7 mm Hg at 21°C
Molecular weight:	Mixture
Water Solubility (%v/v):	Infinite
Photoreactive VOCs:	None
pH:	Approximately 6-7
Evaporation rate (Water =1):	1
Estimated % volatility:	Greater than 99%
Odor threshold:	None
Odor:	None
Appearance:	Clear colorless liquid



10 Stability & Reactivity

STABILITY: Stable under normal storage conditions.

HAZARDOUS POLYMERIZATION: Spontaneous polymerization will not occur.

INCOMPATIBILITIES: Should be stored away from products that are incompatible with water.

DECOMPOSITION PRODUCTS: none identified

INTERNAL PUMPOUT/CLEANOUT CATEGORIES: "A"

11 Toxicological Information

No Data Available.

TARGET ORGANS: No evidence of potential chronic effects.

CHRONIC HEALTH EFFECTS: Chronic exposure to this material on the hands may lead to dry skin.

CANCER HAZARD: None of the primary constituents are known to be carcinogenic. (This material should not be confused with phthalate esters.).

REPRODUCTIVE HAZARD: None of the constituents of the product have been reported to cause birth defects.

Organization	Rating	Description of Carcinogenic Rating
EPA	None	Not listed
NTP	None	Not listed
IARC	None	Not listed
OSHA	None	Not listed
ACGIH	None	Not listed
NIOSH	None	Not listed
DFG MAK	None	Not listed
California Prop. 65	None	Not listed

12 Ecological Information

AQUATIC TOXICOLOGY: No Data Available.

BIODEGRADATION: No Data Available.

13 Disposal Considerations

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is:
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.



Material Safety Data Sheet

14 Transport Information

DOT HAZARD: Not Applicable

PROPER SHIPPING NAME: Not Applicable

15 Regulatory Information

TSCA: All components of this product are listed in the TSCA inventory.

U.S. ENVIRONMENTAL REGULATIONS:

Resource Conservation and Recovery Act: If these products were discarded as purchased, it is believed that the material would not be a RCRA waste.

Regulation	Applicable
§ 261.21 Ignitability	NO
§ 261.22 Corrosivity	NO
§ 261.23 Reactivity	NO
§ 261.24 Toxicity	NO
F CODES	NO
K CODES	NO
P CODES	NO
U CODES	NO

Water Pollution Control Act: Not determined.

Community Right to Know (SARA III):

Regulation	Applicable
Spill Reportable Quantity (§302)	NO
SECTION 311 (§370)	NO
SECTION 312 (§370)	NO
SECTION 313 (§372.65)	NO
EXTREMELY HAZARDOUS LIST (§355)	NO
REPORTING THRESHOLD	10,000 LBS

STATE REGULATIONS:

This MSDS has been prepared to comply with the provisions found in the Federal Department of Labor OSHA Hazard Communication Standard and the EU conventions. Several states, most notably CA, PA, NJ, and MA have independently promulgated regulations pertaining to MSDS. GE Analytical Instruments has not specifically determined if this MSDS is in compliance with the provisions of these states.

CALIFORNIA PROPOSITION 65:

None of the constituents in this product are included on the California "List of Chemicals Known to the State to Cause Cancer or Reproductive Toxicity". We believe that the information contained in this MSDS provides the information needed under Proposition 65 for the employer to inform the employee of the reproductive and carcinogenic hazards.

MASSACHUSETTS: None of the ingredients in the product are thought to be included on the Massachusetts MSL.



Material Safety Data Sheet

NEW JERSEY: This MSDS has not been prepared specifically to comply with the state of New Jersey regulations and may or may not contain compounds present at such levels which could require reporting.

PENNSYLVANIA: This MSDS has not been prepared specifically to comply with the Pennsylvania Right-to-Know regulation and may or may not contain compounds present at such levels which could require reporting.

MICHIGAN REGULATORY INFORMATION: No regulated constituent present at OSHA thresholds

CANADIAN REGULATIONS: WHMIS Classification not determined.

EUROPEAN REGULATIONS: EC Classification (Calculated) not determined.

16 Other Information

NFPA/HMIS

Health	0
Fire	0
Reactivity	0
Special Reactivity	NONE

CODE TRANSLATION

No hazard.
Will not burn.
Normally stable. Not reactive with water.
No special Hazard

CHANGE LOG

EFFECTIVE DATE	REVISIONS TO SECTION	SUPERSEDES
07-JUL-2008	Update to 16-part format	05-MAY-2008
05-MAY-2008	All sections, revised to 16-part GE format and new products added	29-JUN-2005
29-JUN-2005	Last Ionics IBG version	N/A