

## 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 biphthalate 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,      | Total Organic Carbon (TOC) Calibration Standard, 1, 5, 10, 25, 50 mg    |
| STD 91500, STD 91600                  | C/L as potassium hydrogen phthalate (KHP)                               |
| STD 68110, STD 68150, STD 68210,      | Total Organic Carbon (TOC) Calibration Standard, 1, 5, 10, 25, 50, 100, |
| STD 68225, STD 68250, STD 68310,      | 500, 1,000, 5,000, 20,000 mg C/L as potassium hydrogen phthalate        |
| STD 68350, STD 68410, STD 68450,      | (KHP)   |
| STD 68520                             |   |
| 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<br>RTECS | Concentration | OSHA<br>PEL | ACGIH<br>TLV | NIOSH<br>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.

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#### **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 palpabreal epithelium to rupture (similar to that

experienced when distilled water contacts the eyes)

**ACUTE RESPIRATORY EFFECTS**: Gross exposure to massive concentrations is <u>not</u> 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

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#### **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           |  |

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### 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.

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### **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 Classificiation (Calculated) not determined.

#### **16 Other Information**

| NFPA/HMIS  |                     | CODE TRANSLATION   |  |  |
|--|---------------------|--|--|--|
| Health<br>Fire<br>Reactivity<br>Special Reactivity | 0<br>0<br>0<br>NONE | No hazard.<br>Will not burn.<br>Normally stable. Not reactive with water.<br>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         |